CONSTRUCTION NEWS

Some of the Week's Large Projects

AMONG the announcements for the current week are the following:

Proposed Work

Railway, Missouri, Kansas City, Mexico and Orient R.R. Co. making plans, $7,000,000.

Streets and roads, Texas, Edinburg-Hidalgo Co. election Sept. 6, $6,000,000.

Bridge, Rhode Island, Mt. Hope Bridge Co. having plans prepared suspension bridge across Mt. Hope Bay, $5,500,000.

Kraft paper mill, Port Townsend, Wash., Nat'l Paper Products Co. having plans prepared, $2,500,000 to $3,000,000.

Streets and roads, Sherman, Tex., Grayson Co. voted bonds, $2,500,000.

Hotel, Pueblo, Colo., P. H. Philbin, purchased site and had plans prepared, $2,000,000.

Cement plant, St. Louis, Mo., Missouri Portland Cement Co. takes bids about Sept. 1. Approximately $2,000,000.

Theatre, San Antonio, Tex., Interstate Amus. Co. having plans prepared, $2,000,000.

Hospital, Bayonne, N. J., Jewish Hospital Ass'n takes competitive sketches about Oct. 15, $2,000,000.

Hotel, Asbury Park, N. J., Kelly Co. plans, $1,500,000.

Streets and roads, Council Bluffs, Ia., Pottawatomie Co. voted bonds, $1,600,000.

Streets and roads, Athens, Tex., Henderson Co. making plans $1,400,000.

Streets and roads, Sigourney, Ia., Keokuk Co. voted bonds, $1,300,000.

Streets and roads, Refugio, Tex., Refugio Co. bonds election soon, $1,250,000.

Streets and roads, West Union, Ia., Fayette Co. voted bonds, $1,200,000.

Factory, Los Angeles, Calif., Firestone Rubber Co. plans, $1,000,000.

Polytechnic school Baltimore, Md., Mayor and City Council having plans prepared, $1,000,000.

Building, Los Angeles, Calif., Lilly-Fletcher Syndicate having plans prepared, to exceed $1,000,000.

Pipe foundry, Pueblo, Colo., Colorado Fuel and Iron Co., plans, $1,000,000.

Hospital, Camden, N. J., Dept. Pub. Health, having plans prepared, $1,000,000.

Bank and office, Pasadena, Calif., First Trust and Savings Bank and First Nat'l Bank soon take bids, $1,000,000.

Contracts Awarded

Sewers, Chicago, Ill., Sanitary Dist. of Chicago to Foschner Contg. Co., $3,827,120; to Builders Iron Fdry. Co., $57,834; to Chapman Valve Mfg. Co., $33,327. Total $3,918,281.

Office building, Chicago, Ill., Holabird and Roche to McLennan Constr. Co., $3,150,000.

Natural gas system, Texas, Western Gas and Fuel Supply Co., to Atex Constr. Co., approximately $2,500,000.

Office building, Chicago, Ill., De Paul Educational Society, to McLennan Constr. Co., $2,000,000.

Office building, Chicago, Ill., Riseman and Hirschfield to Dilks Constr. Co., 2,000,000.

Apartment store and garage, Chicago, Ill., Syndicate, incl. H. F. Knipp, to Dahlberg & Sundrin, Archts. est. $1,115,000.

Apartment, Oakland, Calif., Bercovich & Associates, to Pacific Coast Engineering Co., $1,000,000.

Waterworks, Rochester, N. Y., Lake Ontario Water Co., to J. G. White Corp., Engrs. est. $1,000,000.

News of the Week

Waterworks

Proposed Work

N. J., Runnemede — (Sta. Camden) — Boro Council, plans waterworks system, incl. 7 mi. 4- to 6-in. pipe, etc. $105,000. W. D. Vosbury, Camden, engr.

La., Monroe—Made plans and takes bids about August 15 filtration plant, distribution mains, etc. $600,000. Burns & McDonnell Eng. Co., 402 Interstate Bldg., Kansas City, Mo., engrs. Noted June 9.

Tenn., Nashville—Bd. Pub. Wks. soon takes bids laying 3 mi. trunk line in northeast part of city. To exceed $15,000. H. E. Howse, mayor. Noted June 23.

Minn., St. Paul—J. W. Kelsey, supt. Water Bd. making plans water tower, 110 ft. high and 36 ft. diam. to house 200,000 gal. tank in Highland Park. $60,000. F. X. Tewes, City Hall, archt.

Kan., Longton—Voted $80,000 bonds waterworks and sewerage systems. F. E. Devlin, 614 Bitting Bldg., Wichita, engr.

Mo., Cabool—Voted $39,000 bonds, 100,000 gal. rein.-con. reservoir, deep well and pumping equipment, 60,000 gal. tank on tower, distribution mains, etc. A. H. Kendricks, Seymour, engr. Noted Dec. 30.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, received no bids July 26, guides, brackets and fixed screen refuse troughs, c.i. water supply pipe, etc. for three traveling water screens in intake at Howards Bend Waterworks Station on Missouri River, St. Louis Co. Will readvertise. L. Day, comr. Noted June 30.

Ark., Fort Smith—Soon takes bids turbine driven centrifugal pump for waterworks station. $40,000. W. H. Evans, City Hall, engr.

Ark., Springdale—Soon takes bids filtration plant, etc. $50,000. Alexander Eng. Co., Woodruff Bldg., Springfield, Mo., engr.

Tex., Alice—Voted $10,000 bonds well and pumping equipment for waterworks. Address P. S. Anderson, Alice, secy.

Tex., Balmorhea — Borderland Utilities Co., plans complete waterworks incl. wells or reservoir, pumping unit, etc. $35,000. Private plans.

Tex., Barreda (mail San Benito)—Gillock Development Co. c/o Lasby & Crawford, San Benito, making preliminary plans complete waterworks incl. power plant, etc. $50,000. Private plans. Noted Aug. 4.

Tex., Beaumont—See "Unclassified."

Tex., Glen Rose—Made plans complete waterworks and sewage system. H. B. McAllister, 519 North 12th St., Waco, engr.

Tex., Hico—Making plans water works improvements. H. B. McAllister, 519 North 12th St., Waco, engr.

THESE reports are grouped under each class (water-works, sewers, etc.) and under each stage of the work (proposed, bids desired, etc.), according to the following geographic sections: New England, Middle Atlantic, South, Middle West, between Mississippi and Rocky Mountains, Far West, and Canada.

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk, or corresponding official.

Tex., Point Isabel—James Dickensen, making plans rein.-con. 2 m.g. settling basin, $100,000. Private plans.

Okla., Faxon — Voted $15,000 bonds, new well, pump and 51,000 ft. 4 and 6 in. c.i. pipe, etc. C. Riggins, Anadarko, engr.

Calif., Glendale — See "Streets and Roads."

Calif., Sebastopol—Making plans additions to water system, 3,000 lin.ft. 10 in. c.i. main, and one 500,000 gal. reservoir. G. L. Dillman, 14 Montgomery St., San Francisco, engr. Noted July 7.

Bids Desired

Mass., Westfield—Sept. 12, by Bd. Pub. Wks., earth dam and reservoir. O. E. Parks, supt.; adv. E. N.-R. Aug. 11.

R. I., North Tiverton (mail Tiverton)—North Tiverton Fire Dist., H. Ibbotson, clk., taking bids and opens same about Aug 15, complete equipment and appurtenances in pump house for proposed water works, incl. necessary pipe fittings and meters.

N. Y., Corning — Aug. 22, by Bd. Pub. Wks., constructing pumping station and force main, in Denison Park, H. Burdett Cleveland, 225 Bway., New York City, consult. sanitary engr.; adv. E. N.-R. Aug. 11.

Md., Baltimore — Aug. 17, by Bd. of Awards, copper pipe for Bureau of Water Supply. G. F. Wieghardt, City Hall, water engr.

N. C., Goldsboro—Aug. 25, by Mayor and Bd. Alderman, waterworks improvements, W. C. Olsen, Inc., Raleigh, engr.; adv. E. N.-R. Aug. 11.

N. C., Wilson—See "Sewers."

Mich., Detroit—Sept. 28, by Dept. Pub. Wks., 4 vertical motor driven pumping units 500 cu.ft. capacity per sec. against 27 ft. head, for Conners Creek, storm water pumping station. J. W. Reid, comr. Pub. Wks.

Ill., Thornton—Aug. 17, by Bd. Trustees, tubular well. C. J. Fleck, village clk.; adv. E. N.-R. Aug. 11.

Mo., St. Louis—Aug. 23, by Bd. Pub. Serv., 208 City Hall, 4 boiler settings for 650 hp. boilers, brick construction with steel lagging, incl. complete combustion control system, etc. for Howard Bend Waterworks Station on Missouri River, St. Louis Co. $40,000. L. Day, City Hall, comr.

Mo., St. Louis—Aug. 30, by Bd. Pub. Serv. 208 City Hell, rein.-con. clear water basin at Howards Bend Waterworks on Missouri River, St. Louis Co. $270,000. L. Day, City Hall, comr.

Tex., Alpine—see "Contracts Awarded."

Tex., San Antonio—See "Unclassified."

Bids Received

N. Y., Syracuse—Bd. Contract & Supply, City Hall, A. Mingler Jr., secy., 487,100 cu.yd. excavation for city reservoir from J. Young, West Brighton Ave. and Hunt. St., $210,000. Noted July 21.

Pa., Phila.—Dept. Pub. Wks., Bureau of Water, July 28, improving Queen lane filters, Contr. 890, from Penna Eng. & Constr. Co., Real Estate Trust Bldg. $13,322; and engine room floor at Torresdale Pumping Station, Contr. 891, from Acme Mach Co., 27 North 38th St. $20,000.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, July 26, 1 story and basement, 53 x 60 ft., rein.-con. and brick substation in Dist. E of City Electric Light System, from Atlas Constr. Co., International Life Bldg., $18,000. Noted June 30.

See proposal advertising on page 136

TRADE **"LEADITE"** MARK

Registered U. S. Pat. Office

Eliminating Repairs and Maintenance Costs

TRENTON WATER WORKS, Trenton, N. J., has been using Leadite for making joints in c. i. bell and spigot water mains for a great many years with entire satisfaction.

They have laid nearly 75 miles of c. i. pipe of various sizes with Leadite joints.

Trenton has very good paved streets and they have never had to dig up a Leadite joint for repairs during all the time they have been using Leadite. They consider this excellent performance for Leadite joints.

They find the use of Leadite has reduced to a minimum repairs and maintenance costs.

Trenton Water Works has always found Leadite joints efficient and economical.

They keep a check on their distribution system by water waste surveys.

During the severe winter of 1917-18 Trenton Water Works had over 2000 frozen services. Many of these services were connected to mains laid with Leadite joints. They had no difficulty in thawing, with electrical apparatus, services connected with mains which were laid with Leadite joints.

Mr. Alvin Bugbee is Superintendent of the Trenton Water Works.

Specify and use LEADITE It saves at least **75%**

Be sure it is LEADITE and accept no imitations

The pioneer self-caulking material for c. i. pipe. Tested and used for over 30 years.

THE LEADITE COMPANY . . Land Title Building . . PHILADELPHIA, PA.

NO CAULKING

Waterworks (Continued)

Contracts Awarded

Mass., Boston—Metropolitan Dist. Water Supply Comn., 24 School St., Boston, 6,750 ft. 20 in. c.i. pipe in Hopkinton, to Portland Contg. Co., Exchange St., Portland, Me., $54,963. Noted June 23.

Miss., Macon—Deep well, pumping equipment, etc., to Layne-Bowler Co., Chelsea Ave., Memphis, Tenn., $16,000. Noted June 9.

R. I., North Tiverton—North Tiverton Fire Dist. Comn., Milton St. water works, piping, etc. to G. Ferullo Co. 31 North Sq., Boston, Mass. $166,214. Noted July 14.

N. Y., Brooklyn—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Avenue H, Varick, and 19th Aves., here to Riverdale Water Works Co., 355 East 113th St., New York City, $25,696. Noted July 21.

N. Y., Long Island City—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Queens and Winchester Blvds., Roosevelt and 50th Aves., etc. to Wataga Constr. Co., 308 Lenox Ave., New York City, $6,440 and to Gregory Constr. Co., 351 East 124th St., New York City, $11,888. Noted July 21.

N. Y., Rochester—Lake Ontario Water Co., 16 Main St., West, 20 in. main through Irondequoit and here, and improving pumping station, etc. to J. G. White Eng. Corp., 43 Exchange St., New York City, Engrs. est. $1,000,000.

Mich., Wyandotte—For 55,000 ft. 6- to 8-in. c.i. mains, etc., in Dists. 89, 90 and 99 to J. A. McDace Co., 2016 Webb Ave., Detroit, $113,735; also 55,000 ft. 6- to 8-in., c.i. mains in Dists. 87, 88, 97 and 98 to Coleman & Harding, 19,417 Derby Ave., Detroit, $117,192. Noted June 30.

Wis., Norwalk—V. C. Wruck, village clk., waterworks, to Phelps-Drake Co., 623 Metropolitan Life Bldg., Minneapolis, Minn.; concrete work, to A. R. Cosseen, Decorah, Ia., approximately $35,000. Noted July 7.

Tex., Alpine—Borderland Utility Co., Alpine will build waterworks in various streets by own forces. $40,000. Private plans.

Tex., Laredo — Central Power & Light Co., c/o S. M. Udden, Frost Bldg., San Antonio, pumping station and filtration plant near the Rio Grande River, here, to McKenzie Constr. Co., c/o Travis Bldg., San Antonio, $134,574. Noted July 28.

Okla., Sperry—New well, triplex pump and motor, 13,600 ft. 4- to 8-in. c.i. mains, etc., to G. C. Hogle, Sperry, $42,211. Engrs. est. $50,000.

Calif., Burbank—Rein.-con., reservoir, storm drain, etc., to M. S. Ross, Holly Security Bldg., Los Angeles, $50,887.

Sewers

Proposed Work

Tenn., Granfield—See "Street and Roads."

Ind., Elwood—Making preliminary plans sewer in 28th St. $64,000. Address City Clerk, Elwood.

Ind., Indianapolis—Making preliminary plans 11 mi. sewers in 31 streets west of Eagle Creek. $200,000. P. Brown, City Hall, engr.

Ill., Pekin—Soon takes bids complete sewerage system in North Side Dist. $120,000. Kinsey Eng. Co., Pekin, engr.

Wis., Madison—Making plans extending sewers in various streets. $215,000. E. E. Parker, City Hall, engr.

Ia., Maxwell—City rejected bids July 25, sanitary sewerage system and sewage disposal plant. Will readvertise. Currie Eng. Co. Webster City, engr.

Kan., Longton—See "Waterworks."

Mo., Clarence—See "Waterworks."

Mo., Rolla—Voted $50,000 bonds complete sanitary sewerage system. Black & Veatch, 700 Mutual Life Bldg., Kansas City, engrs.

Mo., Springfield—Takes bids about Aug. 25, outfall sewer in northwestern part city, approximately 2 mi. 30 in. pipe, sewage disposal plant, incl. two 50 ft. clarifiers, two 55 ft. digesters, 2.5 acres trickling filters, screen house and dosing tanks, etc., $185,000. Russell & Axon, 404 McDaniel Bldg., engrs.

Mo., St. Louis—Making preliminary plans vitr. clay sewers in Rock Creek Sewer Dist. 11, bounded by Ray and Wilmington Aves., Morgan Ford Rd., Bowen, Leona and Bates Sts. $26,000. W. W. Horner, 300 City Hall, engr.

Ark., Hot Springs—Making preliminary plans complete drainage system, incl. 3 dams, laterals, etc. in Central Ave., and adjoining streets, $350,000; also 2 septic tank stations, $200,000. Smith & Annen, Hot Springs, engrs.

Tex., Beaumont—See "Unclassified."

Tex., Glen Rose—See "Waterworks."

Tex., San Antonio—See "Unclassified."

Calif., Fresno—Making plans laying 4,050 lin. ft. 6- to 8-in. vitr. sewer in Pickwick addition. A. M. Jensen, city engr.

Calif., Hawthorne—See "Streets and Roads."

Calif., Los Angeles—See "Streets and Roads."

Calif., San Francisco—Making plans sewers in Laguna Honda Blvd. from Noriega Ave., south. $30,000. M. M. O'Shaughnessy, city engr.

Ont., Kitchener—Making plans rein.-con., brick and steel activated sludge sewage disposal plant, etc. near Doon, $750,000. S. Shupe, City Hall, engr. Gore, Nasmith & Storrie, Confederation Life Bldg., Toronto, consult. engrs.

Ont., Toronto—Plans 8 in. vitr. tile sewers in approximately 1¼ mi. Pope and Sycamore Places, Walpole and Ellis Aves., Crawford St., Old Bridle Path, and 5 lanes. $25,085. R. C. Harris, City Hall, engr.

Bids Desired

Pa., Coatesville—Aug. 29, by L. F. Hoffman, supt. Dept. Streets & Improvements—1,780 ft. 8 in. terra cotta, and 2,565 ft. 18- to 36-in. terra cotta or rein.-con. sewers, etc.; adv. E. N.-R. Aug. 11.

Pa., Kittanning—Sept. 5, by W. G. Ayeboro engr., approximately 7,400 ft. 18 and 24 in. sewers in various streets; adv. E. N.-R. Aug. 11.

N. C., Wilson—Aug. 16, by C. R. McLean, mayor, and Bd. Comrs., 41,000 ft. 2- to 18-in. vitr. sewers along Hominy Swamp, also 8 in. laterals in various parts of city, and extending waterworks. R. D. Gladding, Wilson, consult. engr.

O., Akron—Aug. 18, by W. F. Peters, dir. Pub. Serv., 3,140 ft. 30- to 36-in. vitr. clay or segmental block intercepting sewer along Ohio Canal Interceptor. $77,000. J. E. Root, Municipal Bldg., engr.

O., Willowick—Aug. 13, by Village, 1.5 mi. sewers in Wordon, Whitewood, Oakdale, and Forest Rds., etc. Sterling Engr. Co., 7016 Euclid Ave., Cleveland, engrs.

Kan., Eldorado—Aug. 16, by City Clerk, 3,830 ft. 12 in. vitr. clay sewers, etc., for Main sewerage system. Black & Veatch, 700 Mutual Bldg., Kansas City, Mo., engrs.

Tex., Harlingen—Aug. 17, by City, 21,300 ft. 18- to 48-in. sewers in various streets. A. Tamm, city engr.

Tex., Houston—Aug. 24, by City, O. F. Holcombe, mayor, vacuum sludge filter system complete to be used in the enlargement of North Side Sewage treatment plant. J. C. McVea, Houston, engr.

Okla., Ada — Aug. 18, by City Clerk, sewage disposal plant. $45,000. Black & Veatch, 700 Mutual Bldg., Kansas City, Mo., engrs. Noted July 7.

Bids Received

Mass., Boston—Dept. Pub. Wks., sewerage system in River St. etc. in Dorchester and Hyde Park, from De Christoforo Bros. Co., 38 Glendale Rd., Roslindale, $66,387. Noted July 21.

N. Y., Buffalo — Constructing rein.-con. drain for Scajacada Creek, from Buffalo Dredging & Constr. Co., Morgan Bldg., $223,000.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., Aug. 2, sewers in Kingsland Ave. from J. Gallo, 169-10 State St., Flushing, $77,944. Noted July 28.

N. Y., New York—W. J. Flynn, acting pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., Aug. 4 sewers in Nereid Ave. from Commerce 1910 Webster Ave., $60,466 and in East 233rd St. from C. Turiano Contg. Co., 2911 Coddington Ave., $19,282. Noted July 28.

Mich., Detroit—Dept. Pub. Wks., July 20, 4,037 ft. concrete sewer in tunnel, etc., in Detroit River Interceptor Sec. 4, Jefferson Ave., and 3,971 ft. Sect. 5 from S. A. Healy, 1007 American State Bank, $324,950 and $356,545 respectively. Noted July 14.

Mich., Detroit—Dept. Pub. Wks., July 27, backwater gates for East Jefferson Ave., Sewer Dist., incl., 24,015 cu.yd. excav., etc., from Lennane & McIlvenna, 7777 West Chicago St., $450.000. Noted July 21.

Ia., Grinnell—City Clerk, 25 x 48 ft. sludge digestion tank, 113 x 128 ft. sprinkling filter, 60 x 100 ft. sludge bed and 1,600 ft. 24 in. vitr. pipe sewers, from A. Emmet, Newton, $60,900. Noted Dec. 9.

Neb., Omaha—Storm sewer in Dist. 918, Saddle Creek, Omaha Sewer Constr. Co., 1805 Dodge St., $73,222; Dist. 928, from H. J. Peterson Co., 303 Baum Bldg., $69,923; and Dist. 941, from P. McArdle, 1901 Park Ave. $14,472.

Contracts Awarded

Mass., Boston—Dept. Pub. Wks., sewerage works in Oakland St. etc., West Roxbury, to A. Baruffaldi, 52 Powder House Blvd., West Somerville, $144,909. Noted June 30.

Mass., Lakeville—Comr. Pub. Health, sewerage system, disposal works and connections to existing sewers at Lakeville Sanatorium, to A. Grande, 60 Branden St., Rosindale, $33,000. Noted July 7.

R. I., Providence—Sewerage works in various streets to V. N. Famiglietti, 202 Bway, Engrs. est. $25,000.

Conn., West Hartford (br. Hartford) — Street and Sewer Comn., Town Hall, 44,100 ft. 8- to 18-in. vitr. tile sewers in various streets, to L. Petiossi, 540 Wethersfield St., Hartford, $171,000.

N. Y., Bolivar—Village Trustees, constructing sewerage system and disposal works, here, to S. Ryan and A. Schiavani, Niagara Falls, $91,930.

N. Y., Port Washington—Bd. Sewer Comrs. Port Washington Sewer Dist. approximately 760 ft. 12 in. vitr. sewer pipe in Main St. to Hoban Corp., Manhassett. Noted June 30.

O., Akron—For 930 ft. 30- to 36-in. segmental block South Maple St. Relief Sewer, to McAlonan Bros., 506 Woodland Ave., $25,357; also 7,350 ft. 8- to 15-in. sanitary sewer in Margaret Park Dist. (Summit Lake Blvd., et al), to C. Lombardi, 249 Crosby St., $78,807.

Mich., Clawson—For 10,880 ft. 10- to 33- in. vitr. and concrete sewers, etc. in Roth and Goodale Sts., to R. D. Baker, 1631 Elmhurst Ave., Detroit, $30,750.

Mich., Wyandotte—For 76,000 lin. ft. 12-in. to 5- ft. concrete and vitr. sewers, in Assessment Dist. 76, to Oakwood Constr. Co., Oakwood Blvd., Detroit, $269,747. Noted June 16.

Ill., Chicago—Sanitary District of Chicago, 910 South Michigan Ave., West Side Sewage Treatment Works, Divisions D and J, pumping stations, tanks, grit chambers, etc., to T. J. Forschner Contg. Co., 5201 West Pershing Rd., $3,827,120, Division E, sewage meters, to Builders Iron Foundry Co., 9 Codding St., Providence, R. I. $57,834 and Division K, service gates and valves, to Chapman Valve Mfg. Co., Pine I. O., Springfield, Mass., $33,327. Grand total $3,918,281. Noted June 16.

S. D., Sioux Falls—Trunk sewer in Southside, to A. Fanebust, Sioux Falls, $82,378. Noted May 27.

Mo., Kansas City—Sanitary sewers in Dist. 581, Div. 6, to J. Spitcausky, 2452 Benton Blvd. $28,145.

Mo., Springfield—Sewers in Dist. 3, Sect. 9, to W. F. Plummer, Union State Bank Bldg., $40,066.

Tex., Arlington—Sewers in various streets in North Side, to R. J. Estep & Co., 6631 Gaston St., Dallas, $32,214. Noted June 16.

Tex., Brownsville—For 16- to 24-in storm and sanitary sewers, etc. in various streets to Kirkwood, Wharton & Lee, 456 Main Ave., San Antonio, $72,857.

Tex., McLean—Complete sewerage system and disposal plant to Tibbetts Constr. Co., Joseph Bldg., Ft. Worth, $45,988.

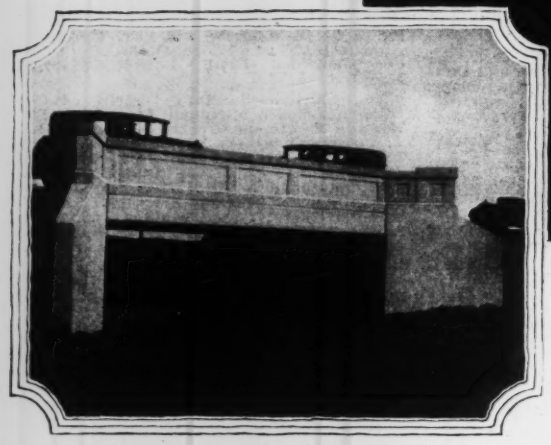
Tex., Waco—For 40,029 ft. 6- to 12-in. sewers in South Waco, to W. G. Cullum & Co., Dallas, $30,256.

Calif., Los Angeles—County Sanitary Dist. 2, rein.-con. sewers etc., from Wilmington to Rocha Sts., to Ross Constr. Co., Van Nuys Hotel, $214,800.

Calif., Lynwood — Constructing vitr. sewers etc. in A & 1 Dist. 11, to B. Bosnyak, 2215 Shoredale Aves., Los Angeles, $49,839; A & 1 Dist. 10 (Ferndwood Ave., etc.) to Miracle Constr. Co., 1604 Dale St., San Diego, $79,908; in A & 1 Dist 9 (Long Beach Rd.) to Dalmatin & Nickevich, 841 West 62nd St., Los Angeles, $100,427 and

Constr. News page 68

When time is money . . .
use High-Early-Strength concrete
made with standard (not special)
Universal Cement



Bridge at Inwood, Iowa. Detour period shortened by two weeks thru the use of *High-Early-Strength* Universal Concrete. R. H. Fuller, county engineer; Frank Humphrey, Cherokee, Iowa, contractor. Standard—not special—Universal cement furnished by Schoeneman Bros. Co., Inwood

Cuts Two Weeks From Detour Period And Also Gives Better Concrete

Thousands of motorists were spared the time-loss and inconvenience of a long detour thru the simple use of *High-Early-Strength* Universal Concrete in the construction of a bridge in Lyon County, Iowa.

The contractor used the usual labor, usual materials, usual equipment and standard—not special—Universal cement, all applied according to fully tested methods. He obtained concrete with a *3-day* strength equal to the *28-day* strength of ordinary concrete. This concrete, having a higher *ultimate* as well as a higher *early* strength, is also *permanently* better and stronger concrete.

As *High-Early-Strength* Universal Concrete can be made as workable as desired, it is being used on all types of jobs. For full details, send in the accompanying coupon.

UNIVERSAL PORTLAND CEMENT CO.
210 South La Salle Street, Chicago
Without obligation, please send me detailed information on methods for securing strong concrete in 3 days with the usual materials.

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ENR 8-11-27

Universal Portland Cement Co.

Chicago Pittsburgh Minneapolis Duluth Cleveland Columbus New York

Concrete for Permanence

Sewers (Continued)

in A & 1 Dist. 8 (Redwood Ave., Flower, Peach Sts., etc.) to Drainage Constr. Co., Box 345, Santa Ana, $179,098. Grand total $409,272. Noted July 28.

Calif., Sacramento — For constructing Sewer System Unit 3 to Gould & Pollock, Forum Bldg., $268,936. Noted July 28.

Calif., Sacramento—Constructing Unit 4 of sewerage system, here, to F. P. Bassler, Forum Bldg., $80,765.

Waste Disposal

Proposed Work

N. J., New Brunswick—Made plans and takes bids about Aug. 25, 50 x 80 ft. brick and concrete incinerator, incl. 155 ft. stack, etc. $115,000. A. Atkinson, City Hall, engr. Noted June 2.

Contracts Awarded

N. Y., Wellsville—Water & Light Dept., W. E. J. Rowe, engr., for 25 ton garbage incinerator to Pittsburgh-Des Moines Steel Co., Curry Bldg., Pittsburgh, Pa. $27,500. Noted May 12.

Bridges

Proposed Work

Rhode Island—Mt. Hope Bridge Co., W. R. Compton Co., 44 Wall St., and Peabody, Houghteling Co., 38 Wall St., New York City, N. Y., have retained Robinson & Steinman, 25 Church St., New York City, N. Y., consulting engrs., preparing plans and supervising construction 1,200 ft. span suspension bridge across Mt. Hope Bay between Bristol and Portsmouth, here. Probably take bids in September. $3,500,000.

Tennessee—State Dept. Highways & Pub Wks., Nashville, takes bids about Sept. 15, rein.-con. bridge over Chattanooga Creek on State Road 2, Hamilton Co. To exceed $25,000. C. N. Bass, highway comr.

Tenn., Elizabethtown—Carter Co. and State Dept. Highways & Pub. Wks., Nashville, soon take bids rein.-con. bridge over Wanonga River, near here. To exceed $25,000. C. N. Bass, highway comr. Noted May 26.

Tenn., Huntsville—See "Streets and Roads."

O., Dayton—Montgomery Co. plans 20 ft. span rein.-con. bridge and steel and 80 ft. span steel super-structure, both 20 ft., on Bellbrook and Alexandersville Rds. $35,000. W. O. Pease, Court House, co. surv.

Wis., Superior—Northern Pacific R.R. Co., H. E. Stevens, ch. engr., St. Paul, Minn., making plans 1,462 ft. forty-five 32 ft. concrete, I-beams span bridge over railroad tracks, here. $300,000.

Ia., West Union—See "Streets and Roads."

Mo., Springfield—Webster Co. defeated $400,000 bonds, bridges and roads.

Tex., Archer City—See "Streets and Roads."

Tex., Athens—See "Streets and Roads."

Tex., Kinney—Brackettville Co. making plans two concrete bridges across Elm and Aransas Creeks, on Highway 3, $28,300,- W. F. Hutson, Brackettville, engr.

Tex., Palo Pinto—Palo Pinto Co. making preliminary plans concrete, steel and timber bridge over Brazos River. $50,000. Address E. L. Pitts, Palo Pinto, co. judge.

Tex., Plemons—Hutchinson Co. making plans 350 ft. concrete and steel bridge across Canadian River. $200,000. Address W. R. Goodwin, Plemons, co, judge.

Tex., Waco—Making plans 80 ft. rein.-con. and steel, bridge across North 15th St. $30,000, also 90 ft. steel and concrete bridge across above street, $35,000. E. E. McAdams, city mgr.

Wash., Cashmere—J. A. Willson, comr. Chelan Co., Wenatchee, plans replacing Kinney Bridge, over Wenatchee River, with 350 ft. long with 20 ft, planked floor. $50,000. J. Duff, Cashmere, co. engr.

Calif., Hanford—Kings Co. plans bridges on Hub Highway, 3 over John Cut Ditch, $84,596 and 1 concrete bridge over South Fork, $30,200. R. May, co. surveyor.

Calif., Marysville—Western Pacific R.R. Co., J. W. Williams, ch. engr. Mills Bldg., San Francisco, made plans steel and rein.-con. bridge over Yuba River near here, $200,000. Private plans.

Calif., Vernon—City made plans concrete arch span bridge, over Los Angeles River, incl. 361,400 lb. reinforcing, 19,000 cu.yd. excav., etc. M. McCurdy, city engr.

Bids Desired

R. I., Coventry—Aug. 24, by State Bd. Pub. Wks., Providence, Summitt R.R. Bridge, Federal Aid Project 38-B, here; adv. E. N.-R. Aug. 11.

Pa., Hamburg—Aug. 16, by T. R. Houck, controller Berks Co., Court House, Reading, rein.-con. bridge over Schuylkill River, here; adv. E. N.-R. Aug. 11.

Del., Wilmington—Aug. 30, by president of Levy Court, County Bldg., one 40 ft. span bridge 303 on Bethlehem Causeway and one 40 ft. span bridge 305 on Red Lion Causeway over Red Lion Creek. C. E. Grubb, co. engr.; adv. E. N.-R. Aug. 11.

North Carolina—Aug. 23, by State Hy. Comn., Raleigh, rein.-con. bridges and culverts in Polk, Catawba, Alexander and Iredell Counties. $349,000. L. R. Ames, state highway engr.

South Carolina—See "Streets and Roads."

Georgia—See "Streets and Roads."

Miss., Yazoo City—Aug. 16, by Bd. Supervs. Yazoo Co., bridges on Federal Aid Projects 48, 179-D and E. H. C. Dietzer, Jackson, state highway engr.

Louisiana—Aug. 23, by State Hy. Comn., Baton Rouge, constructing Bayou Oise Bridge, on Gretna-Lafitte Highway at Lafitte Post Office, State Project 446-A, Jefferson Parish. N. W. Bowden, Reymond Bldg., Baton Rouge, highway engr.

Ohio—Aug. 19, by G. F. Schlesinger, dir. Highways and Public Wks., Columbus, constructing 13 concrete bridges on 8 projects in Allen, Ashland, Auglaize, Clermont, Fairfield, Hardin and Logan Counties; one steel bridge and approaches on Gallipolis-McArthur Rd., Sect. "Vinton," Gallia Co.; and constructing steel bridge (grade crossing), on Sect. A-3, Ohio River Rd., Belmont Co.

O., Cleveland—Aug. 13, by Comrs. Cuyahoga Co., concrete bridge over Ridge Rd. $36,276. F. Lander, Court House, engr.

Michigan — Aug. 18, by C. L. Cowgill, resident engr., Plymouth, 3 span Federal Aid Bridge X 1 of 47-6-1 Contr. 1, Livingston Co. Former bids rejected. Noted July 7.

Iowa — Aug. 19, by State Hy. Comn., Ames, one 24 x 32 ft. and one 40 x 20 ft. I-beam bridges, also 65 culverts in Benton Co., three 32 x 24 ft. deck girder bridges in Cerro Gordo Co., one 40 x 24 ft. skew I-beam bridge, one 50 x 20 ft. pony truss bridge, and one 130 x 20 ft. high truss bridge with two 32 ft. I-beam approaches, also 59 culverts in Decatur Co., one 34 x 26 ft. I-beam bridge in Tama Co., one 70 x 20 ft. pony truss bridge and 9 culverts in Washington Co., 39 culverts in Appanoose Co., 3 culverts in Lucas Co., 31 culverts in Mahaska Co., and 19 culverts in Sac Co. R. F. White, ch. highway engr.

Arkansas—Aug. 30, by State Hy. Comn., Little Rock, 4,209 lin.ft. rein.-con. trestles on Harahan Viaduct, Crittenden Co., Federal Aid Project 300-A, Unit 2. D. H. Blackwood, chn.; adv. E. N. R.

Washington—Aug. 23, by State Hy. Comn., Olympia, two 30 ft. and one 40 ft. rein.-con. T-beam spans, etc. over Swamp Creek on State Rd. 1, King Co.; and two 200 ft. riveted through steel spans, etc. over Yakima River on State Rd. 3, Yakima Co. S. J. Humes, state highway engr.

Bids Received

N. J., Bridgeboro—State Hy. Comn., Trenton, single leaf bascule span bridge, over Rancocas Creek, Route 2, Burlington Co., here from Eastern Eng. Co., 4 N.N. Carolina Ave., Atlantic City, $356,668. Noted July 21.

Pennsylvania—State Hy. Comn., Harrisburg, July 29, constructing Clymer Bridge on Route 262, Indiana Co., from D. A. and W. E. Clark, 117 Mary St., Johnsonburg $92,310; and Cromwell Twp. Bridge on Route 121, Huntingdon Co., from Concrete Steel Bridge Co., Clarksburg, W. Va. $39,-061. Noted July 14 under "Streets and Roads."

South Dakota—State Hy. Comn., Pierre, July 26, **(F.A.P. means Federal Aid Project)**, constructing bridges on F.A.P. 173-E, Hand Co., from Diamond Engr. Co., Grand Island, Neb., $15,966; F.A.P. 207-B, Minnehaha Co., to Pioneer Bridge Co., Mitchell, $13,794; F.A.P. 208-C, Roberts Co., from A. Herreid, Summit, $2,748; F.A.P. 214-A, Marshall Co., to M. A. Stump, Mobridge, $16,967; F.A.P. 210, Hutchinson and Bon Homme Counties, from Willis Bonesteel, Gregory, $6,986; F.A.P. 195-B, Deuel Co. and F.A.P. - 152, Codington Co., from Noonan-Hyde Co., Watertown, $2,507 and $13,160 respectively. Noted July 21 under "Streets and Road."

Missouri—State Hy. Comn., Jefferson City, July 29, from Pittsburgh-Des Moines Steel Co., Tuttle and Southwest 10th Sts., Des Moines, Ia., two 12 ft. rein.-con. slab spans, etc. over stream, Audrain Co., $4,044, from Kelly & Underwood, Granby, one 40 ft. and two 35 ft. rein.-con. deck girder spans, etc. on Sta. 590 plus 42, Audrain Co., $19,721, three 40 ft. and two 45 ft. rein.-con. deck girder spans, etc. over Spring River, $12,658, three 8 ft. and two 12 ft. rein-con. slab spans, etc. over stream, Lawrence Co., $6,123; from A. A. Davis & Co., Kansas City, three 40 ft. rein.-con. deck girder spans, etc. over Cape La Croix Creek, Cape Girardeau Co., $19,040; from Summerfield Jones Co., Billings, six 15 ft. timber spans, etc. over stream, Cape Girardeau Co., $6,412; from Service Constr. Co., Poplar Bluff, two 12 ft. rein.-con. slab spans, etc. over stream, Cape Girardeau Co., $4,617; from O. O. Fuller, Nevada, 40 ft. rein.-con. deck girder span, etc. over Little Petit Saline Creek, Cooper Co., $3,912; from J. J. Bailey, St. Louis, fourteen 20 ft. rein.-con. slab spans, etc. over overflow Little Chariton River, Chariton Co., $16,609, one 90 ft. steel truss, and two each 25 and 30 ft. rein.-con. deck girded spans, etc. over Little Chariton River, $18,223; from Knutsen Bros., Breckenridge, three 20 ft. rein.-con. slab span etc. over Shannon Branch, Chariton Co., $5,940; from Pope Constr. Co., Jefferson City, two 12 ft., rein.-con. slab spans, etc. over stream, Pike Co., $2,148; from Gaines Bros., Fairland, Okla., two 20 ft. rein.-con. slab and one 80 ft. steel truss spans, etc. over Branch Peno Creek, Pike Co., $14,031; and from J. P. Sparks, Kirkwood, three 30 ft. rein.-con. deck girder spans, etc. over Bobs Creek, Lincoln Co., $7,171. Noted July 29.

Calif., Vernon—Concrete arch bridge in Soto St., over Los Angeles River from Lynch-Cannon Eng. Co., Chapman Bldg., Los Angeles, $142,176. Noted Aug. 11. H. McCurdy, city engr.

Contracts Awarded

Vermont—State Bd. Highways, Montpelier, 98 ft. steel bridge and 0.6 mi. graveling approaches in Montpelier and Berlin, to Dee Grute Bros, North Bennington, $32,971.

New York—Westchester Co. Park Comn., 72 West Pondfield Rd., Bronxville, constructing Interlake Bridge between Reservoirs 2 and 3, of New Rochelle Water Co., on Hutchinson River Parkway, New Rochelle, town of Eastchester, Cont. 167, to Nicholas & Sagmani, Tuckahoe, $49,570. Noted July 28.

North Carolina—State Hy. Dept., Raleigh, rein.-con. bridge etc. on Projects 315; Brunswick Co. to J. S. Bowers, Whiteville, $33,612, on Project 4010, Chatham Co., to T. A. Loving & Co., Goldsboro, $29,910, and on Project 604, Alexander Co., to Carolina Co., Charlotte, $38,011. Grand total $91,533. Noted June 23.

Miss., Brookhaven—See "Streets and Roads."

Tenn., Chattanooga—Hamilton Co., rein.-con. bridge and approaches over Lookout Creek on State Aid Project 356-B, to Small & Triplett, Roberta, Ga., approximately $108,600.

Tenn., Memphis—City Comn. Aulon Viaduct, 2,300 ft. long, 36 ft. wide at Aulon, near here, to H. J. Gilbertson Constr. Co., Graham Bldg., Memphis, $220,365. Illinois Central R.R. Co., 135 East 11th Pl., A. F. Blaess, ch. engr., Louisville & Nashville R.R. Co., Louisville, W. H. Courtnay, ch. engr., Nashville, Chattanooga & St. Louis R.R. Co., Nashville, Tenn., H. McDonald, ch. engr. and Belt Ry. Co. of Chicago, Polk and Dearborn Sts., Chicago, Ill., E. H. Lee, pres. and ch. engr., will share cost. Noted Feb. 11.

Illinois—State Dept. Pub. Wks. & Buildings, Div Highways, Springfield, concrete substructure for steel bridge on Route 160, Sect. 132-B, Madison Co., to W. C. Johnson, Belleville, $8,315, 2 concrete sub-structures for steel spans with concrete approaches and concrete slab bridge on Route 160, Sect. 132-B, Madison Co., to Struble & Helmick, Alton $26,143, 3 steel superstructures for steel spans on Route 160, Sects. 132-C and 133-C, Madison Co., to Strupp Bros. Bridge & Iron Co., St. Louis, Mo. $36,980, 1 concrete slab bridge, 1 concrete box culvert, 2 concrete girder bridges, on

Constr. News page 69

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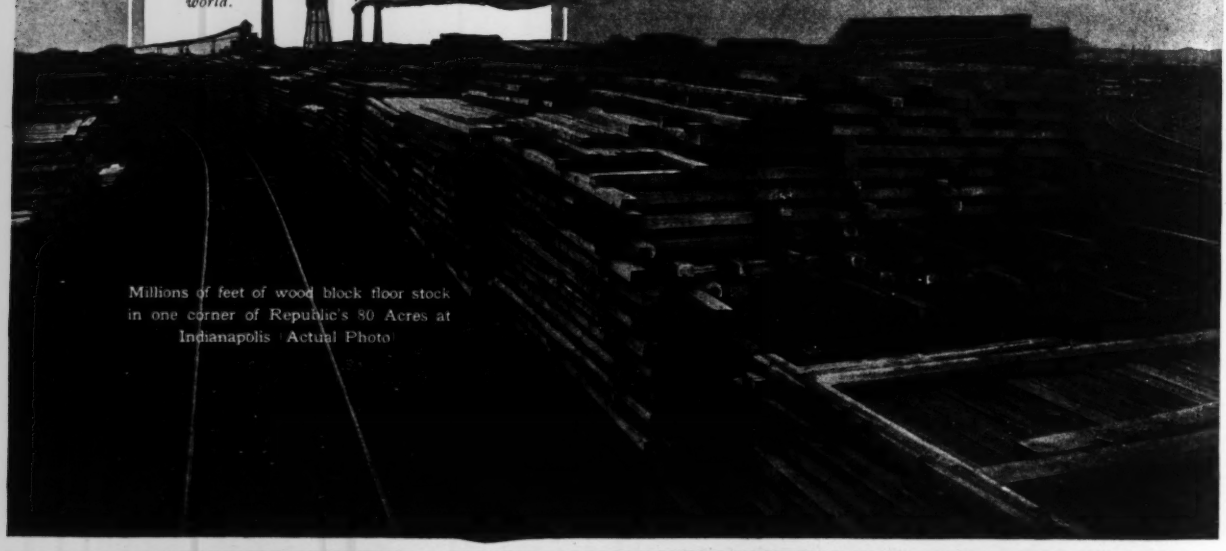

Millions of feet of wood block floor stock in one corner of Republic's 80 Acres at Indianapolis Actual Photo

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Home Office and Plant Indianapolis Indiana

OTHER PLANTS

ST. LOUIS PARK, MINN. SEATTLE, WASH. MOBILE, ALA. NORFOLK, VA. SALT LAKE CITY, UTAH

Bridges (Continued)

Route 130, Sect. 123-B, Richland Co., to V. O. Conner, Newton, $35,301, 3 concrete girder bridges and 1 concrete slab bridge on Route 121, Sect. 143-B, Piatt and Douglas Counties, to G. C. Fairclo, Champaign, $47,167 3 concrete girders and 1 concrete slab bridge on Route 121, Sect. 142-B, Moultrie and Piatt Counties, to Zimmerly Bridge Co., Paris, $23,716. Grand total $177,622.

Iowa—State Hy. Comn., Ames, one 20 x 120 ft. high truss bridge near Centerville, Project B-301, Appanooce Co., 31,880 lb. reinforcing, 131,700 lb. structural steel, etc., to Iowa Bridge Co., 1901 Easton Blvd., Des Moines, $19,250, 1 concrete arch bridge and 85 culverts on Dubuque-Dyersburg Rd., Project B-398, Dubuque Co., 109,630 lb. reinforcing, etc., to Pioneer Constr. Co., Newhall, $37,850, one 20 x 24 ft. slab bridge, one 24 x 24 ft. skew bridge and 5 culverts on Wallingford Rd., Project B-217, Emmet Co., 29,750 lb. reinforcing, etc., to C. J. Kramme, Ft. Dodge, $10,200, one 60 x 20 ft. pony truss bridge, one 32 x 24 ft. skew I-beam bridge and one 26 x 24 ft. I-beam bridge also 32 culverts near Newton, Project B-384, Jasper Co., 96,535 lb. reinforcing, 99,875 lb. structural steel, etc., to B. Cole, Ames, $36,166, one 50 x 20 ft. and one 85 x 20 ft. pony truss bridges, 2 slab bridge extensions, two 24 x 20 ft., one 24 x 24 ft., slab bridges, also 44 culverts and extensions and 2 flume outlets on U. S. Highway 61, Project B-394, Muscatine Co., to Lundgren-Reis Co., 65 College St., Des Moines, $60,724, two 20 x 24 ft. slab bridges, three 24 x 24 ft., and one 40 x 24 ft. I beam bridges, 24 x 24 ft. skew I-beam bridge, one combination 32 x 24 ft. and two 26 x 24 ft. I-beam spans, 8 culverts on Underwood-Neola Rd., Project B-231, Pottawatomie Co., 112,940 lb. reinforcing and 157,060 lb. structural steel, etc., to Wickham Bridge & Tile Co., 27 South 19th St., Council Bluffs, $41,200, one 120 x 20 ft. high truss bridge on Project B-401, Ringgold Co., to Zitteral-Swanson Co., Winterset, $21,230, two 32 x 20 ft. I-beam approaches and 25 culverts on same project, to Wilson Constr. Co., Red Oak, $15,560, one 16 x 18 ft. I-beam bridge on Project B-400, Sac Co., to M. Pluth, Earley, $3,575, 9 culverts on U. S. Highway 30, Project B-386, Benton Co., 12,765 lb. reinforcing, etc. to Schaaf & Jacobson, Lake Park, $3,380, 30 culverts and extensions on U. S. Highway 61, Project B-396, Lee Co., 43,195 lb. reinforcing, etc., Cameron-Joyce Co., Keokuk, $12,770, 20 culverts and extensions on Project B-402, Lucas Co., 34,315 lb. reinforcing, etc., to J. J. Groose, Winterset, $9,649, 30 culverts on Projects B-295 and B-404, Union Co., to Midwest Constr. Co., Des Moines, $17,194, raising and extending 1 wood trestle bridge near Fairfield, Project B-45, Jefferson Co., 21,560 lb. reinforcing, etc., to C. H. Kearns, Fairfield, $3,186. Grand total $291,934.

Minnesota—State Hy. Comn., St. Paul, to E. G. Bigham, 307 Main St., Winona, constructing bridges on Rushford-Whalen Rd., State Project 9-21-2, Fillmore Co. Bridges No. 4728 at $16,517; 4729, $10,945; 4730, $11,928; and 4731, $6,409. Grand total, $45,799. Noted July 21.

Montana—State Hy. Comn., Helena, **(F.A.P. means Federal Aid Project)** constructing steel bridge on F.A.P. 130-B, Prairie Co. to W. Mackin, Terry $7,358, Sun River Bridge on F.A.P. 218-B, Cascade Co., to McGuire & Blakeslee, Great Falls $57,795, and Bison Creek Bridge on F.A.P. 242-A, Jefferson Co., to J. R. Silver, Butte, Mont. $5,026; also timber bridge on F.A.P. 243-A, Richland Co., to A. E. Lyle & Co., Billings $2,473. Grand total $72,652.

Texas—State Hy. Dept., Austin, 125 ft. steel span girder bridge, etc. over White Rock Crook, Hy. 94, also one 106 ft. and one 159 ft. concrete girder bridge over Caney and Piney Creeks, to Thomas & Ratliff, Rogers, $31,450 and $19,122 respectively. Noted July 14.

Tex., Abilene—Taylor Co. several rein.-con. bridges over 20 ft. span, on State Highway 1, to Sullivan & Davis, Granger, $51,633. Engrs. est. $55,000.

Tex., Falfurrias—See "Streets and Roads."

Tex., Panhandle — See "Streets and Roads."

Tex., Wharton—See "Streets and Roads."

Oklahoma—State Hy. Dept., Oklahoma City **(e.e. means engineers estimate)**, 1 span steel truss bridge on concrete piers at Crowder, Pittsburgh Co., 119 tons steel truss, 1,447 ft. wooden piling, etc., to Gaines, Yokum & Mackey, 519 West Main St., Oklahoma City, $65,581, e.e. $70,000, three 46 ft. spans I-beam bridge, at Christie, Adair Co., 10.84 tons reinforcing, 24.84 tons I-beams, 222 ft. hand rail, etc., to E. Cady, Madill, $11,582, e.e. $16,500, 1 span 108 ft. steel truss bridge on concrete piers at Apache, Comanche Co., 114.5 tons truss steel, 41.66 tons reinforcing, etc., to Southwestern Bridge Co., Lawton, $45,470, e.e. $50,000, 2 span 260 ft. steel truss bridge on concrete piers at Stratford, Garvin Co., 338.64 tons, truss steel, 57.97 tons reinforcing, etc., to Boardman & Co., Exchange Ave., Oklahoma City, $97,446, e.e. $110,000, 1 span steel truss bridge on concrete piers at Kanima, Haskell Co., 385,610 lb. truss steel, 90,380 lb. reinforcing, etc., to Woodward Constr. Co., Woodward, $63,453, e.e. $75,000, 25 span 1,908 ft. I-beam and trusses on piers at Headrick, Jackson Co., 802.94 tons truss steel, 117.57 tons reinforcing, 1,450 ft. wooden piling, etc., to Western Constr. Co., 1st Natl. Bank Bldg., $216,633, e.e. $245,000, 3 span 120 ft. I-beam bridge at Ringwood, Major Co., 31.95 tons I-beam, 10.92 tons reinforcing, 800 ft. wooden piling, etc., to Roberts & Fisher Norman, $12,547, e.e. $20,000, 1 span 106 ft. steel truss bridge on piers at Sumner, Noble Co., 57.56 tons truss steel, 14.65 tons reinforcing, to M. A. Swatek, 519 West Main St., Oklahoma City, $29,289, e.e. $35,000. Grand total $542,001. Noted July 21.

Calif., Orick — State Hy. Dept., Sacramento, steel bridge over Redwood Creek near here to Mercer-Fraser Co., Eureka, $92,059. Noted Aug. 4.

Calif., Riverside—Riverside Co., steel bridge over Santa Ana River on Corona to Chino Highway, to E. G. Perham, 4711 Willowbrook Ave., Los Angeles, $67,700; also 300 ft. steel and concrete bridge over San Jacinto River at Gilmon Springs to C. P. Hancock, 1330 Lemon St., Riverside. $37,765. Noted Aug. 4 and July 9.

Dams

Proposed Work

Calif., Los Angeles—Supervs., Los Angeles Co., Flood Control Dist., rejected bids furnishing concrete aggregates for San Gabriel Dam. Noted July 28.

Bids Desired

Wash., Seattle — Sept. 9, by Bd. Pub. Wks., County-City Bldg., constructing concrete arch Diablo Dam on Skagit River, Whatcom Co.; adv. E. N.-R. Aug. 11.

Contracts Awarded

Kan., Meade—Forestry, Fish & Game Comn., J. B. Doze, secy., Pratt, dam at lake site on Turkey Tract Ranch near here for state fish hatchery to L. W. Rexroad, Salina. $38,788.

Arkansas—See "Excavation, Drainage, Irrigation, Levees, River and Harbor."

Railways

Proposed Work

Georgia—Seaboard Air Line R.R., W. D. Faucette, ch. engr., Savannah, plans railroad from Albany to Moultrie and Quitman. T. L. Bean, Citizens & Savings Bank Bldg., Albany, dist. engr.

Missouri—Kansas City, Mexico & Orient R.R. Co., W. L. Churchill, ch. engr., Wichita, Kan., making plans extending and generally improving system, incl. buildings, station, etc. $7,000,000

Texas—Waco, Beaumont, Trinity & Sabine R.R. Co., R. C. Duff, pres., Houston, plans 190 mi. line from Livingston to Port Arthur, with belt line from Bragg to Saratoga, and from Weldon to Mart.

Bids Desired

Mass., Boston — Aug. 30, by Transit Dept., 1 Beacon St., constructing two track surface railway extension, Sect. 4 of Dorchester Rapid Transit R.R. A. D. Adair, acting secy.; adv. E. N.-R. Aug. 11.

Contracts Awarded

Calif., Barstow—Atchison, Topeka and Santa Fe Ry., H. W. Wagner, ch. engr., Topeka, Kan., constructing new main double-tracked passenger line through yards and reconstructing and raising portions of yards, incl. approximately 250,000 cu.yd. excav., here, to Marsh Bros., & Gardenier, Monadnock Bldg., San Francisco.

Excavation, Drainage, Irrigation, Levees, River and Harbor

Proposed Work

Ark., North Little Rock—Woodson Levee Dist., c/o C. H. Wilson, 519 East Arkansas Ave., soon takes bids repairing approximately 57 breaks in Woodson Levee. $15,000.

Tex., Brownsville—Cameron Co. Water Control Dist. 7, El Jardin, voted $175,000 bonds enlarging and improving irrigation system. W. O. Washington. Brownsville, co. engr.

Tex., Brownsville—Voted $150,000 bonds drainage improvements at Los Fresnos, incl. flume over Ranchio Viejo Resaca and other improvements. C. A. Hobbs, Brownsville, engr.

Tex., Los Fresnos—Cameron Co. Water Control & Impvt. Dist. 6, D. Gilley, dir., making plans drains and laterals, etc. $66,000. C. A. Hobbs, Brownsville, engr.

Tex., Point Isabel—James & Dickenson, Brownsville, making plans and soon takes bids ship channel, $40,000. Private plans.

Colorado—Missouri Pacific R.R. Co., c/o E. H. Wheeler, Railway Exchange, St. Louis, Mo., or P. E. Watson, 100 South Union Ave., Pueblo, Colo., plans irrigating 58,000 acres in Arkansas Valley between Olney Springs and Sugar City, Colo., E. A. Hatley, St. Louis, ch. engr.

Calif., Vina—Deer Creek Irrigation Dist., soon takes bids, diversion dam, canal system, etc., incl. 12,784 cu.yd. earth excavation, etc. J. B. Thompson, Chico, engr.

Bids Desired

N. Y., Syracuse—Aug. 15, by Bd. Contract & Supply, City Hall, cleaning channel and constructing rein.-con. cover over Harbor Brook from Richmond Ave. to State Fair Blvd.

Va., Richmond—Aug. 15, by Dept. Pub. Wks., new city wharf, incl. 300 ft. rein.-con. wall. $100,000.

Bids Received

N. Y., New York—M. Cosgrove, comr. Docks, Pier "A", Battery Pl., Aug. 4, bulkhead wall, at East 17th St. and East River, from General Contg. & Eng. Co., 40 Rector St., $15,090. Noted July 28.

Contracts Awarded

Conn., Hartford—Bd. Contract & Supply, B. Lyon, secy., retaining wall on Myrtle St. extension from Church to Spring Sts., to R. E. Cronsell, 7 Mozart St., West Hartford. $25,339. Engrs. est. $25,000. Noted July 31.

Miss., Alligator—Gum Pond D. D. 8 mi. drainage canal, near here, to C. B. Vaughan, Clarksdale, approximately $18,000.

Ind., Indianapolis—Dredging and widening White River from Morris to Raymond Sts., 65 ft. levee, 30 ft. roadway, to C. E. Jefferson, 100 Beckley Road, $497,390. Engrs. est. $700,640.

Mo., Glendale (mail Kirkwood)—See "Buildings Commercial."

Arkansas—Farcelly Lake Levee Dist. Gillett, floodgates and dam across Bayou Mets in Jefferson Co., to McWilliams Co. Inc., Exch. Bldg., Memphis, Tenn., $284,000.

Ark., Blytheville—Mississippi Co., repairing levee on east side of Big Lake and along Arkansas-Missouri state line, incl. 102,697 earthworth, to W. E. Callahan Constr. Co., Arcade Bldg., St. Louis, Mo. Approximately $32,000.

Ark., Lewisville—Red River Levee Dist. 1, c/o R. V. Hall, 425 State Bank Bldg., Texarkana, extending levee 68,000 sq.yd. from Sta. C to Sta. 126 and constructing levee 98,000 sq.yd. from Sta. 126 to 176, to George Brothers, Texarkana, $35,950.

Tex., San Antonio—see "Unclassified."

Calif., La Mesa—La Mesa, Lemon Grove & Spring Valley Irrigation Dist., 4,230 ft. 6- and 14-in. c.i. pipe, flittings, gate valves, etc., to United States Cast Iron Pipe & Foundry Co., Wright-Callender Bldg., Los Angeles, $10,854. Noted June 30.

Calif., Los Angeles—Constructing diversion and appurtenant works for Puddingstone channel to A. O. Nelson, 136 North Huntington Drive, Pasadena, $85,745.

Constr. News page 70

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New York City 50 Church St.
Philadelphia, Pa. Packard Building
Pittsburgh, Pennsylvania Federal Reserve Building
San Francisco, Calif. Monadnock Building
St. Louis, Mo. Railway Exchange Bldg.

Streets and Roads

Proposed Work

R. I., Providence—Plans reconstructing and improving Academy Ave. 5th, 4th and Holly Sts. $25,000. Private plans.

N. J., Trenton—Mercer Co. Freeholders, plan concrete paving 3 mi. Pennington-Hopewell Rd. $125,000. H. F. Harris, Trenton, co. engr.

Ga., Waycross—Making plans paving 19 blocks various streets. To exceed $25,000.

Tenn., Cleveland—Voted $35,000 bonds, improving various streets. Long & Co., 1300 Colcord Bldg., Oklahoma City, Okla., engrs.

Tenn., Crossville—Cumberland Co. voted $40,000 bonds, completing Crossville-Cooksville Rd.

Tenn., Granfield—Voted $100,000 bonds for streets and sewers.

Tenn., Huntsville—Scott Co. and State Dept. Highways & Pub. Wks., Nashville, takes bids about Sept. 15, grading, bridging, etc. 15 mi. Huntsville-Pioneer Rd. $150,000.

O., Canton—Bd. Control plans widening and paving, etc. Navarr Rd. S.W. $40,000. W. E. Sarver, City Hall, engr.

O., Hinckley (br. Medina)—Cleveland Metropolitan Park Bd. plans grading, etc. various streets. $60,000. W. A. Stinchcomb, West 3rd St. and Franklin Ave., engr.

Ill., Alton—Soon takes bids grading, curbing, guttering and 7 in. rein.-con. paving 8,554 sq.yd. 13th, 14th, Alton, Marilla and Langdon Sts. $38,262. J. E. Schwaab, City Hall, engr.

Wis., Madison—City Council, W. R. Winckler, clk., making plans improving streets. $155,000. E. E. Parker, City Hall, engr.

Ia., Council Bluffs—Pottawatomie Co. voted $1,600,000 bonds, improving roads.

Ia., Manchester — Delaware Co. voted $850,000 bonds, 24 mi. concrete and 14 mi. gravel surfacing. H. Klaus, Manchester, co. engr.

Ia., Mt. Pleasant—Henry Co. voted $900,000 bonds, concrete paving 40 mi. and graveling 10 mi. various roads. C. E. Smith, Mt. Pleasant, co. engr.

Ia., Sidney—Fremont Co. voted $600,000 bonds, concrete paving 10 mi. roads. J. L. McGraul, Sidney, co. engr.

Ia., Sigourney—Keokuk Co. voted $1,300,000 bonds, grading, bridging and graveling balance primary road system. R. C. Fye, Sigourney, co. engr.

Ia., West Union—Fayette Co. voted $1,200,000 bonds, grading, bridging, paving, etc. 32.5 mi. Primary Road 11. A. D. Finch, West Union, co. engr.

Minn., St. Paul—Plans paving Dayton Ave. between Lexington and Hamline Aves. $34,897. G. M. Shepard, City Hall, engr.

Kan., Seneca—Nemaha Co., soon takes bids, grading, etc., and two 30 ft. I-beam spans and one 60 ft. truss span bridge, on 9.129 mi. Federal Aid Project 319-C, 30 ft. L. P. Price, Court House, engr. Noted June 30.

Kan., Wellington—Summer Co., making plans and soon takes bids grading, etc. 13.93 mi. Federal Aid Project 386-A on U. S. Road 166, 30 ft. J. W. Mavity Court House, engr.

Mont, Butte—City, c/o W. G. Maloney, clk., making plans grading, concrete, asphaltic concrete, or bitulithic concrete on crushed rock paving, etc. Special Street Impvt. Project 343. $36,900—$43,025. Address City Engineer.

Mo., Dearborn—Voted $50,000 bonds, grading, paving, etc. 3.25 mi. various streets.

Mo., St. Joseph—Soon takes bids grading and asphalt or concrete paving, etc. approximately 50,000 sq.yd. Northeast and Northwest Extensions to Parkway Blvd. W. M. Spann, City Hall, engr.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, making plans alternate types paving, etc. portions Russell Pl., Era, Clemens, Bayard and Goode Aves., DeBaliviere, Maryland Pendleton, 8th, 10th, McDonald, San Francisco, Lilian and Potomac Sts. W. W. Horner, 300 City Hall, engr.

Ark., Harrison—Making plans and soon takes bids grading, curbing and concrete paving, etc., 14 blocks various streets. A. C. Moore, Joplin National Bank Bldg., Joplin, Mo., engr.

Tex., Anahuac—Chambers Co. voted $100,000 bonds grading, bridging and surfacing roads in Precinct 4. Address L. R. Miller, Anahuac, co. judge.

Tex., Archer City—Archer Co. making plans grading and bridging 16.18 mi. Highway 79, $92,755. G. R. Johnson, Archer City, engr.

Tex., Athens — Henderson Co. making plans grading, bridging and asphalt topping on rein.-con. paving 40 mi. Highway 40, $1,400,000. Engineer not selected.

Tex., Beaumont—See "Unclassified."

Tex., Brownsville—Cameron Co. making plans concrete paving 24.5 mi. Highway 100, 18 ft. $700,000. W. O. Washington, Brownsville, engr.

Tex., Ft. Stockton—City Comn. takes bids about Aug. 15, permanent paving 30 blocks various streets. $60,000. Address mayor.

Tex., Groesbeck—Limestone Co. making plans rein.-con. or concrete base with asphalt topping paving 7.5 mi. Highway 14, 18 ft. $215,000. Nagle-Witt-Rollins-Gilchrist, Dallas, engr.

Tex., Henrietta—Clay Co. making plans gravel and asphalt paving 10 mi. Highway 25. $35,402. W. E. Cornett, Henrietta, engr.

Tex., Lefors—Voted $250,000 bonds roads in Precinct 4. Address T. M. Wolfe, Lefors co. judge.

Tex., Lockhart—Caldwell Co. voted $49,000 bonds grading, surfacing, etc. roads in Precinct 7 and County Precinct 5. Address M. U. Smith, Lockhart, co. judge.

Tex., Point Isabel—James & Dickenson, making preliminary plans graveling and asphalt paving 4 mi. main streets. $100,000. Private plans.

Tex., Raymondville—Willacy Co. making plans concrete paving 8 mi. Highway 96, 18 ft. $280,000. J. E. Johnson, Raymondville, engr.

Tex., Sherman—Grayson Co. voted $2,500,000 bonds constructing highways and lateral roads. Address R. M. Carter, Sherman, co. judge.

Oklahoma—State Hy. Dept., Oklahoma City, making surveys grading 12 mi. State Road 51, 30 ft. $65,000. C. R. Mandigo, Capitol Bldg., Oklahoma City, engr.

Okla., Jackson—Jackson Co. voted $600,000 bonds, improving primary road system. C. R. Mandigo, Capitol Bldg., Oklahoma City, engr.

Okla., Waureka — Jefferson Co. voted $600,000 bonds, primary road system. C. R. Mandigo, Capitol Bldg., Oklahoma City, engr.

Calif., Glendale—Made plans concrete curbing, water mains, etc., Roads End and Madison Way, etc. To exceed $25,000. A. J. Van Wie, city clerk.

Calif., Hawthorne—City plans curbing, guttering, sewers and asphaltic concrete paving, etc., in Wilbur Ave. To exceed $25,000.

Calif., Hawthorne—Plans curbing, guttering, sewers, asphaltic concrete paving Maryland Ave. To exceed $25,000.

Calif., Hermosa Beach—City plans paving, etc. Hermosa Ave. between north and south city limits. Los Angeles Co. (Los Angeles) appropriates $40,000 toward cost. M. M. Murray, city engr.

Calif., Los Angeles—Plans asphaltic concrete paving, sewers, street lighting system, etc., in 3rd St., between Fairfax Ave. and La Cienega Blvd. To exceed $25,000.

Calif., Los Angeles—Made plans concrete and oil macadam paving Colorado St., Co. Imp. 609. To exceed $27,500.

Calif., Oakland—Making plans concrete curbing, guttering, and macadam paving streets in High Street Terrace. To exceed $25,000. G. N. Randle, city engr.

Calif., Oroville—Butte Co. plans new roads in various sections. $60,000. H. H. Hume, Oroville, co. surv.

Calif., Redwood City—San Mateo Co. making surveys new road from summit Alpine grade to Alpine school and point 3 mi. south therefrom. To exceed $25,000. G. A. Knees, Redwood City, co. surv.

Calif., San Fernando—Plans curbing, walks and concrete paving, etc. Griffith St., etc. To exceed $25,000.

Calif., San Francisco — Making plans paving, curbing, etc., San Jose Ave. near Balboa Park. $30,000. M. M. O'Shaughnessy, city engr.

Ont., Brampton—Pell Co. plans asphalt, asphaltic concrete or bitulithic paving 3.5 mi. road from Toronto-Hamilton-Lake Shore Hy. to Dundas Rd. $70,000. N. L. Powell, Court House, engr.

Ont., Campbellford — Plans macadam, concrete or bitulithic paving 2 mi. main streets, 20 ft. $50,000. Engineer not selected.

Ont., Ford City—Plans grading, curbing, guttering and concrete or asphalt on concrete paving approximately 4 mi. various streets, 24 ft. $410,000. H. W. Patterson, Walkerville, engr.

Ont., Ottawa — City Council, making plans, asphalt on concrete paving Metcalfe St. and MacKenzie Ave., $6,644 and $27,474 respectively; concrete sidewalks York St. $1,617. Grand total $35,735. A. F. Macallumm, City Hall, engr.

Ont., Toronto—Plans asphalt on concrete paving Ancroft Pl., Hook, Cypress, Doel Aves., $20,499; asphalt paving Bloor St. and Boon Ave., $2,442; opening lane east of Logan Ave. and west of Shaw St., $2,500 and $9,200 respectively. R. C. Harris, City Hall, engr.

Ont., Toronto—York Twp. making plans asphalt on concrete paving 5,000 sq.yd. Rosethorn and Jillson Aves. $25,000. F. B. Goedike, 40 Jarvis St., engr.

Ont., Windsor—Council plans curbing, etc. Field Ave.; and concrete paving Janette Ave. and Tecumseh Rd. $100,000. A. Brian, City Hall, engr.

Bids Desired

Maine—Aug. 16, by State Hy. Comn., Austin, graveling 2.94 mi. Highway in Anson, and 0.85 mi. in Gouldsboro; also bituminous macadam paving 2.71 mi. in Mechanic Falls and Poland.

Mass., Lowell—Aug. 16, by City, City Hall, sheet asphalt resurfacing approximately 13,500 sq.yd. various streets. H. P. Doherty, supt. streets.

Mass., Marblehead—Aug. 17, by Town, R. Tutt, clk., Town Hall, grading, etc., Prince St. $25,000. Private plans.

Connecticut—Aug. 15, by J. A. Macdonald, hy. comr., Hartford, rein.-con. paving in West Haven, Windsor, Stonington, Suffield and Fairfield; waterbound macadam paving in New Milford and Sherman, and Woodbury; asphalt paving in Hartford and West Hartford; bituminous macadam paving in Enfield, South Windsor, Mansfield, Wellington and Ashford and Eastford; bridges in Fairfield, Woodbury, Hartland, Guilford and Madison; adv. E. N.-R. Aug. 11.

New York—Aug. 22, by Westchester Co. Park Comn., 72 West Pondfield Rd., Bronxville, grading and bituminous concrete, amiesite, or asphalt block on concrete paving 4,200 ft. Cross County Pkwy., Rye; Contr. 151; also foundations for bascule bridge and approach spans across New Rochelle Creek, between Glen Island and mainland, New Rochelle. Contr. 169 J. Downer, ch. engr.; adv. E. N.-R. Aug. 11.

New York—Aug. 26, by A. W. Brandt, comr. Highways, Albany, constructing highways in Delaware, Orange, Oswego, Otsego, Schoharie, Washington, Clinton, and Monroe Counties, etc.; adv. E. N.-R. Aug. 11.

Maryland—Aug. 23, by State Hy. Comn., Baltimore, graveling 1.45 mi. Contr. SM-39, St. Marys Co.; concrete shoulders on 2.6 mi. Contr. M-84, 1 mi. Contr. M-79, and 1.5 mi. Contr. M-83, all Montgomery Co.; and concrete paving 1 mi. Contr. M-58, Montgomery Co., 1 mi. Contr. H-51, Harford Co., and 1 mi. Contr. AA-53, Anne Arundel Co. J. N. Mackall, Garrett Bldg., comr.; adv. E. N.-R. Aug. 11.

Md., Baltimore — Aug. 17, by Bd. of Awards, concrete paving 29,800 sq.yd. streets per Contrs. 424 and 425. Steuart Purcell, City Hall, engr.

West Virginia—Aug. 16, by State Road Comn., Charleston, grading, brick and gravel surfacing, etc. 40.3 mi. roads in Fayette, Mason, Mingo, Hancock, Marshall and Roane Counties. E. B. Carskadon, secy.

West Virginia—Aug. 23, by State Road Comn., Charleston, grading, gravel, stone, slag, tar surface, or concrete surfacing, 83.51 mi. roads in Nicholas, Wayne, Mingo, Logan, Mason, Mercer, Wyoming, Brooke, and Calhoun Counties, also concrete, circular arch culvert in Brooks Co. E. B. Carskadon, secy.

North Carolina—Aug. 23, by State Hy. Comn., Raleigh, grading, top soiling, concrete or asphalt paving, etc. 59.77 mi. 8 projects in Polk, Allegheny, Gaston, Catawba, Davidson, Sampson, Craven and Perquimaus Counties. $932,200. L. R. Ames, Raleigh, highway ebtr.

South Carolina—Aug. 16, by State Hy. Dept., Columbia, cement concrete paving 8.2 mi. Route 3, Federal Aid Proect 210, Richland Co., and 12.3 mi. Route 161, Project 511, same county, 11.5 mi. Route 50,

Constr. News page 71

Ingersoll-Rand compressors, drills, and blacksmith equipment. These machines and others of similar type are used by Patrick McGovern, Inc., New York subway builders.

Patrick McGovern, Inc.

Patrick McGovern, Inc., has been awarded Sections 1, 2 and 3, Route 104, of New York City's subway extension work. These sections, which together reach from 8th Avenue to Long Island City, were awarded on net bids aggregating over $20,000,000.

Below are listed some other noteworthy contracts on which the McGovern organization has been active in the past:

1912—Lexington Ave. Subway, New York City.
1913—New York State Barge Canal.
1915—Ft. Point Channel Tunnels (Boston, Mass.).
1915—60th St. Tunnels, New York City.
1918—14th St. Subway, New York City.
1919—Jersey City, N. J., Pipe Line.
1921—Jamaica Bay, N. Y., Causeway.
1923—Brooklyn Shaft, Narrows Tunnel, New York City.
1923—Staten Island Shaft, Narrows Tunnel, New York City.
1924—Contract 106, Broad St. Subway, Philadelphia.
1925—Contracts 107-A and B, Broad St. Subway, Philadelphia.

The McGovern contracts on these 11 jobs alone totaled over $50,000,000.

PERSONNEL OF THE COMPANY—Patrick McGovern, Pres. and Treas.; E. D. Hubbard, Vice-Pres.; M. G. Ruisseau, Asst. Treas.; M. B. Boyce, Sec.; John S. MacDonald, Chief Eng.; Chas. Harrington, Construction Eng.; Patrick Porter, Supt.; Chas. Kelley, Master Mech.

(This is the twentieth of a series on the New York subway contractors.)

How New York City is Building Its New Subway System

For over fifty years Ingersoll-Rand has been a pioneer in the manufacture of compressed air equipment. Half a century of leadership in its field has won the continued patronage of the country's foremost contractors. And now, in 1927, with work well under way on the new subway system, New York contractors have again selected I-R products for their many jobs requiring the use of air-operated equipment.

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Ingersoll-Rand

Streets and Roads (Continued)

Project 266-A, Kershaw Co.; sheet asphalt paving 17.5 mi. Route 12, 25-B, reopened, Contr. 2, 25-A, reopened and 141-C, revised, Lexington Co., 10.5 mi. Route 12, Project 255 and 25-B, same Co.; grading, 10.7 mi. Route 20, Project 655-A, 11.3 mi. Route 21, Project 254-B, and 2.9 mi. Route 2, Project 259-A, all foregoing in Greenville Co., 6.4 mi. Route 301, Project 659-A, and 12.5 mi. Route 301, Project 659-B, Colleton Co.; sand clay paving 3.1 mi. Route 52, Project 558, Calhoun Co.; concrete bridge over Ireland, Route 30, Project 179, Colleton and Dorchester Counties, and concrete bridge over Edisto River, Route 30 and 6, Project 557, Colleton Co., and concrete and steel bridge over Tiger River, Route 7, Project 235-F, Union Co. B. Sawyer, Columbia, comr.

Louisiana—Aug. 23, by State Hy. Comn., Baton Rouge, grading and graveling 3.39 mi. Anacoco-Texas Highway, State Project 568-A, Vernon Parish. N. W. Bowden, highway engr.

Ohio—Aug. 19, by G. F. Schlesinger, dir. Highways & Public Wks., Columbus, grading, etc. 5.617 mi. roads in Washington, Jefferson, Morgan and Monroe Counties; brick paving approximately 28.032 mi. and concrete paving, etc. approximately 22.091 mi. of 45 projects in 29 counties.

O., Columbus—Aug. 16, by W. H. Duffy, dir. Pub. Serv., brick or asphalt paving, etc. 17,615 sq.yd. 24th, Bride, Boella, Cordella, Queen and 6th Ave. R. H. Simpson, city engr.

O., Steubenville—Aug. 19, by Comrs. Jefferson Co., Court House, slag surfacing, etc. 9.25 mi. seven roads, $28,000. V. N. Penn, engr.

Michigan—Aug. 16, by C. L. Cowgill, resident engr., Plymouth, concrete paving 1.296 mi. Mo 63-13 Contr. 1, and 5.193 mi. FC-63-21 Contr. 1, both Oakland Co. Noted Aug. 4.

Michigan—Aug. 18 by G. H. Greene, resident engr. Fletcher Bldg., Alpena graveling 7.034 mi. Mo 68-8 Contr. 3, Oscoda Co. Noted Aug. 4.

Michigan — Aug. 18, by C. H. Brown, resident engr., 14380 Wyoming Ave., Detroit, concrete paving 6.105 mi. A. D. 481 Sec. A, Macomb Co.

Michigan—Aug. 19, by G. H. Greene, resident engr., Alpena, graveling 5.070 mi. Mo 65-9 Contr. 1, Ogemaw Co. Noted Aug. 4.

Wisconsin—Aug. 17, by State Hy. Comn. and T. B. Olsen, clk. Shorewood, at Div. Office 2, Stephenson Bldg., Milwaukee, grading, concrete surfacing, etc., 6,130 sq. yd. Federal Aid Project 349-G; and 25,530 sq.yd. County Line-Waukesha Rd., Federal Aid Project 268-B, Waukesha Co. H. V. Vecom, div. engr.

Iowa — Aug. 19, by State Hy. Comn., Ames, paving 50 mi. roads in Chickasaw, Bremer, Winneshiek and Pottawatomie Counties; grading 69.8 mi. roads in Clinton, Washington, Lucas, Decatur Sac, Benton, Appanoose, Maheska and Pottawatomie Counties; graveling 227 mi. in Palo Alto, Wright, Jones and Cedar Counties; bridge fill, etc., in Mitchell Co.; guard rail in Mitchell, Howard, Palo Alto and Allamakee Counties. R. F. White, ch. highway engr.

Ia., Adel — Aug. 15, at office Auditor Dallas Co., graveling 9.39 mi. Secondary Projects 66, 70 and 73. E. L. Kaser, Adel, co. engr.

Ia., Dubuque — Aug. 15, by Auditor Dubuque Co., improving Worthington-Dyersville Rd. and Dubuque-Lore Rd. incl. 35,500 cu.yd. earth, 5,000 cu.yd. loose rock and 4,415 cu.yd. solid rock excav. G. A. Blunt, Dubuque, co. engr. Noted June 23.

Ia., Spirit Lake—Aug. 19, at office Auditor Dickinson Co., graveling 26 mi. road. R. A. Furman, Spirit Lake, co. engr.

Minn., Minneapolis—Aug. 16, by A. P. Erickson, aud. Hennepin Co., 7.21 mi. concrete and 1.3 mi. asphaltic concrete paving Forest Lake Cut-off. $291,000. E. E. Terrell, Court House, co. engr.

Kan., Ft. Scott—Aug. 15 at office Clerk, Bourbon Co., Ft. Scott, furnishing and applying 30,800 gal. bitumen surfacing various roads.

Kan., Ottawa—Aug. 26, by Clerk Franklin Co., grading, and concrete or brick paving 4.794 mi. Federal Aid Project 280 Sections A and C, U. S. Road 73 W., 18 ft. E. F. Loveless, Court House, Ottawa, engr.

Neb., Litchfield—Aug. 19, by M. F. Snavety, city clk., grading and alternate types paving, etc. $6,000 yd. various streets. To exceed $25,000. Henningson Engr. Co., Natl. Bank Bldg., Omaha engr.

Mo., St. Louis—Aug. 23, by Bd. Pub. Serv., 208 City Hall, rein.-con. paving Kingshighway Blvd. through Penrose Park, south of viaduct and waterbound macadam paving north of viaduct, $18,480; rein.-con. paving approximately 3,800 sq.yd. Kingshighway Northwest, $11,720; also grading, concrete paving, etc. approximately 15,000 sq.yd. Alleys in City Blocks 1106, 2823, 3602, 3655, 4016, 4050, 4713, 5414, 5831, 5873, and 5901. $40,360. W. W. Horner, City Hall, engr. Noted Aug. 4.

Mo., St. Louis—Sept. 6, by Bd. Pub. Serv., 208 City Hall, concrete paving 2,650 sq.yd. Morganford Rd. $13,920; warrenite bitulithic paving 4,660 sq.yd. Kansas St., $29,600; rein.-con. paving 5,185 sq.yd. Dale St. $29,720; asphalt paving 6,535 sq.yd. Dale St., $40,400; and granite block paving 1,685 sq.yd. St. Charles St. $13,720. W. W. Horner, 300 City Hall, engr.

Ark., Arkadelphia—Taking bids, grading curbing and concrete paving 70 blocks Street Improvement Dist. 4. Noted Mar. 25, 1926. F. A. Gerig, Arkadelphia, engr.

Tex., Amarillo—Aug. 21, by S. B. Motlow, jude Potter Co., curbing, guttering and gravel surfacing 13½ blocks west half of Western Ave. from State Hy. 13, to point 8.6 mi. north. R. W. Ryder, Amarillo, engr.

Nevada—Aug. 17, by State Hy. Comn., Carson City, grading, graveling, etc., 18.-200 cu.yd. Federal Aid Project 14, Douglas and Ormsby Counties. S. C. Durke, highway engr.

Washington—Aug. 23, by State Hy. Comn., Olympia, grading, etc. 5.5 mi. State Rd. 9, Grays Harbor and Jefferson Counties, 1.7 mi. State Rd. 2, Lincoln Co., 3.7 mi. State Rd 8, Skamania Co.; crushed rock surfacing, etc. 5,150 cu.yd. State Rd. 2, Douglas Co., 5,600 cu.yd. State Rd. 7, Grant Co. S. J. Humes, state highway engr.

Calif., Merced—P. J. Thornton, clk. Merced Co., taking bids concrete paving 3 mi. Merced-Snelling-Merced Falls Rd., Sect. 4. W. E. Bedesen, co. surveyor.

Contracts Awarded

Vt., Johnston—State Hy. Dept., Montpelier, one course concrete paving, etc., 1,675 ft. highway, here, to Adams & Desmore, Claremont, N. H., $16,987. Noted July 14.

Massachusetts—Dept. Pub. Wks., Boston, bituminous concrete type C paving 2,476 ft. highway in West Bridgewater, to M. F. Roach & Sons Inc., 35 Spring St., East Bridgewater, $12,641, and bituminous macadam paving 4,400 ft. in Danvers to Ioffolla & Shields Constr. Co., 15 Noyes Pl., Boston, $26,355. Noted July 21.

Massachusetts—State Hy. Dept., Boston, bituminous macadam paving 15,038 ft. in Charlton, to F. Lanza, Pemberton Bldg., Boston, $185,919, 2,500 ft. in West Boylston, to J. J. McHugh, Leicester, $12,235, 3,300 ft. in Groveland, to B. Perni, Ashland, to $29,777, 8,600 ft. in Templeton, to Long, Cross & Burnham, Greenfield, $67,-602, rein.-con. paving 1,000 ft. in Salem, to W. F. Duffee, Haverhill, $9,386; bituminous concrete paving 19,841 ft. in Orleans and Eastham, to Lane Constr. Corp., 37 Colony St., Meriden, Conn., $90,331; gravel with bituminous surface treatment 4,900 ft. in Pepperell, to J. F. Rooney, Milford, $23,-977; and rein.-con. bridge and approaches on 4,916 ft. in East Bridgewater, to Powers Bros., Brockton, $20,575. Grand total $439,802. Noted July 14.

Massachusetts — Dept. Pub. Wks., Boston, gravel with bituminous surface treating, 8,250 ft. highway in Hadley, to Gleason Bros. Inc., Northampton, $53,573. Noted July 28.

Mass., Boston—Grading and reconstructing Ashland and Oakland Sts. Ward 18, to W. J. Barry, 431 Ashland St., Roslindale, Engrs. est. $25,000; sheet asphalt or bithilithic paving Boylston St. Ward 4 and 5, to J. McCourt Co., 910 Huntington Ave., $55,115; recut granite block paving A St., South Boston, to S. J. Tomasello, 11 Cushing Terrace, Dorchester, $56,494. Noted June 23.

Mass., Braintree (Ind. br. Boston)—Bituminous macadam or sheet asphalt resurfacing Washington St. etc. to Reynolds Bros. Inc., 179 Summer St., Boston, $23,-954.

Mass., Cambridge (br. Boston)—Metropolitan Dist. Com., 1 Ashburton Place, Boston, bituminous concrete surfacing, etc., 15,000 sq.yd. Memorial Dr. and Cambridge Parkway, to Simpson Bros. Corp., 77 Summer St., Boston, $22,100. Engrs. est. $25,000.

New York—A. W. Brandt, comr. Highways, Albany, reconstructing 3.01 mi. Repair Contr. 1630 Hornell-Wayland Rd., Pt. 2, Highway 9029, Steuben Co. to Cold Spring Constr. Co., Ellicott Bldg., Buffalo, $121,752 e.e. $179,994; 2.59 mi. highway 1766, Glen Mill Point-De Forest Corner Rd. Pt. 2, Montgomery Co. to Koetteritz & Blakeslee, Little Falls, $190,350 e.e. $242,-044; 2.43 mi. Repair Contr. 1633 Jericho Turnpike Highway, 1633, Jericho Turnpike Pt. 2, Highway 5111 Suffolk Co. to J. L. Duggan Inc., Little Britton Rd., Newburgh, $193,610 e.e. $263,176; 2.46 mi. Repair Contr. 3182 Wampsville-Oneida Castle Highway, 5078 Madison Co. to Harrison Engr. & Constr. Corp., Ellicott Sq., Buffalo, $143,450 e.e. $181,337; 0.24 mi. Repair Contr. 3181, Schroon Lake-North Hudson Rd. Pt. 2, Essex Co. to C. C. Donahue, Petersburg, $11,760 e.e. $27,050; 5.26 mi. highway 8286, Harford-Marathon Rd. Pt. 1 and 2 Cortland Co. to O'Day & Ambrose, Binghamton, $240,510 e.e. $325,283. Grand total $901,432. Noted July 21.

New York—Westchester Co. Park Comn., 72 West Pondfield Rd., Bronxville, grading, Saw Mill River Parkway from Yonkers to Dobbs Ferry, Contr. 163 to C. Bennett Improvement Co., 469 Fenimore St., Brooklyn, $271,908; also installing electric lighting in Tibbetts Brook Park, Rumsey Rd. and Nepperhan Heights Sect. Saw Mill River Parkway, in Yonkers, Cont. 149 to Ransom & Anderson Co., 136 Liberty St., New York. $36,211. Noted July 21.

N. Y., St. George—J. A. Lynch, pres. Richmond Boro, Boro Hall, grading block repaving Bay St. to Vanbro Constr. Co., 24 Elizabeth St., West New Brighton, $2,671; concrete curbing Maple Parkway and sewer in Lawrence Lane to J. Johnson Sons, 445 West New Brighton, $3,763 and $5,297. Grand total $11,660. Noted July 21.

N. Y., St. George—J. A. Lynch, pres. Richmond Boro, Boro Hall, grading and bituminous macadam paving Canal St. to J. E. Donovan Paving Co., 2207 Richmond Terrace, Port Richmond, $16,444 and St. Johns Ave. to Vanbro Constr. Co., 24 Elizabeth St., West New Brighton, $6,270. Noted July 21.

N. J. Somerville—Bd. Freeholders Somerset Co. Court House, 2 mi. road between South Bound Brook and New Brunswick, to M. Staub, Pitman, $86,330. Noted July 14.

Maryland—State Roads Comn., Baltimore, concrete paving 0.93 mi. roads from end Contr. T-23, to Cordova, Contr T-26, Talbot Co. and 0.61 mi. road from Queenstown to Centerville, Contr. Q-40, Queens Anne's Co. to J. K. Flick, Sudlersville, $28,993 and $12,017 respectively, 1 mi. road from Myersville to Ellerton Contr. F-73, Frederick Co. to Poffenberger & Mause, Myersville, $38,546, 1.2 mi. road along Cherry Lane Contr. Ho-28 to Ward Connell, 3114 Presbury St., Baltimore, $24,886, 1.4 mi. road on Cookesville-Olney Rd. Contr. HO-44, to Thomas, Bennett & Hunter, Westminster, $49,999, both foregoing in Howard Co.; 2.48 mi. road between Rhodesdale and Vienna, Contr. D-45, Dorchester Co., to Layfield & Waller, Salisbury, $39,109, 1.94 mi. from near Oakwood to State Line, Contr. Ce-61, Cecil Co. to G. A. Atkinson, Port Deposit, $43,512, 3.43 mi. along Jarrettsville Rd. Contr. B-85, to H. T. Campbell Sons Co., Towson, $58,965 and sheet asphalt paving 0.48 mi. along Harford Rd. Contr. BG-67, to Amer. Paving & Constr. Co., Monthello Ave., Baltimore, $75,336 both foregoing in Baltimore Co.; graveling 0.76 mi. road from end Contr. CH-38, to Berry, Contr. Ch-44, Charles Co., to T. Mullan, 3945 Greenmount Ave., Baltimore, $5,712. Grand total $377,114. Noted July 14.

Maryland—State Roads Comn., Baltimore concrete paving 1.5 mi. road between Rohrersville and Gapland, Contr. W-49, Washington Co. to Poffenberger & Mause, Myersville, $34,822; 1.33 mi. road between Cambridge and Lloyds, Contr. D-46, Dorchester Co. and 2.6 mi. road from State Rd. near Preston to Hynson, Contr. Co-44 and Contr. D-44, Caroline and Dorchester Counties to P. D. Phillips & Bro., Salisbury, $40,427 and $42,918 respectively; 1.15 mi. road from Barnesville to Comus, Contr. M-78, and 1 mi. road from Brookville towards Sunshine, Contr. M-76, both Montgomery Co., to M. J. Grove Lime Co., Lime Kiln, $20,675 and $25,527 respectively. Grand total $164,369. Noted July 7 and 14.

Md., Baltimore — Grading, curbing and sheet asphalt on concrete paving streets listed in Contr. 417 to Baltimore Asphalt Block Co., 1320 North Monroe St., $79,193; and grading, curbing and granite block on concrete paving streets listed in Contr. 418 to Mahoney Bros., 1111 Rutland Ave., $20,-444. Noted July 14.

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Streets and Roads (Continued)

Va., Richmond—Grading, graveling, curbing and gutering portions 8 streets, to J. J. Curley, 901 North 4th St., Engrs. est. $30,487. Noted June 16.

W. Va., Weston—Lewis Co., grading 6.7 mi. Walkersville-Braxton Co. line Rd., State Route 4, to Monongahela Constr. Co., Morgantown, $117,676

North Carolina—State Hy. Comn., Raleigh, to L. G. Smith & Co., Ashville grading and waterbound macadam paving, etc. 7.3 mi. Project 916, Cherokee Co. $59,832; to J. F. Mulligan Constr. Co., North Wilkesboro, grading, and small rein.-con. structures, etc. 9 mi. Project 228, Green Co. $34,075, clearing, grading and top solling, etc. 5.2 mi. Project 5210, Randolph Co. $33,215, grading and topsoiling etc. 16.47 mi. Project 7580, Surry Co. $62,304, to Rutherford Constr. Co., Rutherfordton, 7.67 mi. Project. 8220 Cleveland Co. $32,404; to N. L. Teer, Durham, clearing, grading and small concrete structures 5.71 mi. Project 5770, Randolph Co. $28,095; to Simmons Constr. Corp., Morehead City, grading and sand asphalt paving 1.62 mi. Project 2030, Carteret Co., $49,376; to Hudson & Scruggs, Wilmington, clearing, grading and sand asphalt paving etc. 13.73 mi. Project 374, Pender Co. $218,163; to Hedrick Constr. Co., Lexington, grading and asphaltic concrete paving 1.2 mi. Project 4021, Chatham Co. $27,835; to Jamison Bros., High Point, clearing, grubbing, grading, etc. 11.90 mi. Project 315, Brunswick Co. $47,219; to G. R. Martin, Salisbury, grading and plain concrete paving 5.01 mi. Project 7780, Wilkes Co. $117,500, to Crowell & Foster, Statesville, 2.02 mi. Project 699, Union Co. $63,880, to Hy. Eng. & Constr. Co., Selbyville, Del., 5.87 mi. Project 4980, Warren Co., $138,842, to Powell Paving Co., Winston-Salem, 0.94 mi. Project 748, Forsyth Co. $29,446, to Roberts Paving Co., Salisbury, Md., 10 mi. Project 1961, Washington Co. $202,245, 9 mi. Project 231, Greene Co. $181,419, 3.32 mi. Project 4890, Wake Co. $67,434, 10.47 mi. Project 1580, Nash Co. $213,446, to W. F. Bowie, Jr., 541 Broad St., Augusta, Ga., 9.66 mi. Project 4800, Wake Co. $219,071, to Brown Paving Co., Lexington, 5.99 mi. Project 2700 Sampson Co. $118,834, to Belote Constr. Co., Asheville, 6.17 mi. Project 8400, Henderson Co., $129,624, to Noll Constr. Co., Charlotte, 4.68 mi. Project 5840, Randolph Co., $107,386; to W. C. Carter, Mebane, clearing, grading, and top soiling, etc. 16.96 mi. Project 826, Cleveland Co. $70,536. Grand total $2,252,181. Noted June 23.

Miss., Brookhaven—Lincoln Co., Bd. Supervs., Lincoln Co., grading, bridging, etc. 5.392 mi. Federal Aid Project 89-B, to D. F. Gates & Co., Crystal Springs, $40,985. Noted June 9.

Miss., Jackson—For 2 in. asphalt paving portions Broad and 1st Aves., Pinehurst, George and Fortification Sts., to Dunn Constr. Co., Chamber Commerce Bldg., Birmingham, Ala., $52,516.

Tennessee—State Dept. Highways & Pub. Wks., Nashville, grading, etc., incl. 5 timber bridges, 14.48 mi. Gatlingburg-North Carolina State Line Rd., to Dicus Bros. Contr. Co., Waynesville, N. C. approximately $327,000. Noted May 19.

Tenn., Chattanooga—See "Bridges."

Michigan—G. H. Green, resident engr., Alpena, concrete paving 5.170 mi. F-016-13 Contr. 2, Cheboygan Co., to Goldberg Constr. Co., Grawn, $166,110. Noted July 14.

Mich., Ferndale (br. Detroit)—Curbing, guttering and concrete paving approximately 40,000 sq.yd. Livernois and Allen Aves., Kensington, Stratford, Rosewood, Vester, Burdette, Breckenridge and Lewiston Sts., to R. D. Baker Co., 1631 Elmhurst Ave., Detroit, $100,000.

Illinois—State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, to Shanks & Wilson, Watseka, concrete paving 0.89 mi. Routes 9 and 25, Sects. 16-E, 17-E and 33-E, Ford Co., $19,464, to W. A. Black Co., 565 West Washington Bl., Chicago, Ill., 3.77 mi. Route 6, Sect. C-4, Du Page Co., $112,988, to A. J. Shanks, Watseka, 7.12 mi. Route 51, Sect. 105, Will Co., $164,355, to E. J. Eiff, Quincy, 3.62 mi. Route 85, Sect. 101, Mercer and Warren Counties $102,410, to Dyer Constr. Co., Hoopeston, 1.61 mi. Route 91, Sect. 111, Peoria Co., $44,499, to Madison Constr. Co., Edwardsville, 14.76 mi. Route 112, Sects. 101, 102 and 103, Madison and Macoupin Counties $313,000, 6.71 mi. Route 140, Sect. 109 White Co., $167,621 and 10.5 mi. Route 160, Sects. 132 and 133 Madison Co., $263,000, to Hamilton-Hoffman Constr. Co., Carbondale, 7.87 mi. Route 123, Sect. 101 Menard Co., $190,570, to R. E. Vinyard, Penton, 1.23 mi. Route 142, Sect. 127 Gallatin Co., $31,766, to Casey Constr. Co., Casey, 3.79 mi. Route 152, Sect. 101 Randolph Co., $87,203, to Darrow & Barron, Waukegan, 5.21 mi. Route 172, Sect. 128, Lake Co. $165,146, to Edwardsville Constr. Co., Edwardsville, 2.79 mi. Route 156, Sects. 103 and 103-B, incl. concrete girder bridge $70,253 and grading 2.55 mi. Route 156, Sect. 103-A Monroe Co., $17,316, to Dees Bros., Oblong, grading 6.28 mi. Route 130, Sect. 123-A, Richland Co., $59,604. Grand total $1,809,195. Noted July 21.

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Ill., Venice—Removing brick and wood block paving and rein.-con. repaving portions Bway and Main St., to Concord Constr. Co., Buder Bldg., St. Louis, Mo., $107,040, and 5-in. rein.-con. paving 2,000 sq.yd. South State St., to L. B. Patton, Granite City, $4,391.

Wisconsin — State Hy. Comn., Court House, La Crosse, improving 10,104 ft. Wilton-Norwalk Rd., State Job 5848, Monroe Co., to Nelson, Mullen & Nelson, 355 Temple Court Bldg., Minneapolis, Minn. $21,915; constructing Meyer Bridge on same road, Job 5770, to M. Schroeder, Cashton, $4,218; shale surfacing, etc. 4,728 cu.yd. Mondovi-Eleva Rd. Project 5875, Buffalo Co., to W. J. Wolf, Eau Claire $25,277; and constructing Goss Bridge on Job B-5745, Buffalo Co., to H. Beckman & Co., Lake City, Minn. $8,432. Grand total $59,842. Noted July 28.

Iowa—State Hy. Comn., Ames, to C. Thompson, Shell Rock, gravel surfacing, etc. 10.1 mi. Project P-191 Bremer Co. $11,154, to M. O. Weaver, Iowa Falls, 17.568 mi. Project P-527, Cedar Co. $45,572, to R. Cook, Nevada, 4.121 mi. Project P-153, $1,746, 3.011 mi. Project P-357 $676 and 3.932 mi. Project F-297 $2,979, all foregoing in Greene Co.; to Iowa Sand & Gravel Co., Eddyville, 4.795 mi. Project P-452 Keokuk Co. $25,845, to Moore, & Eldridge, Clemons, 6.155 mi. Project P-517, Muscatine Co. $7,374 and 11.755 mi. Project P-522 Muscatine Co. $13,429, to Lynch & Co., Castina, 4.01 mi. Project F-286 Ida Co. $3,678 and grading, paving, etc. 2,184 sq.yd. U. S. Highway 20, Project F-2, Woodbury Co. $7,170; to Wright Constr. Co., 1325 Main St., Des Moines, paving 79,917 sq.yd. U. S. Highway 61, Project P-480 Lee Co. $184,610, 101,473 sq.yd. U. S. Highway 30, Project F-214 Harrison Co. $240,069 and 4,000 sq.yd. U. S. Highway 32-E, Project F-206 Polk Co. $13,665; to American Paving Co., 1325 Grace St., Omaha, Neb., grading and paving 236,074 sq.yd. U. S. Highway 20, Project F-2, Woodbury Co. $671,652 and grading, etc. 3.064 mi. U. S. Highway 20, Project F-305, Dubuque Co. $31,953; to Dave Condon, Omaha, Neb., grading 1.173 mi. U. S. Highway 30, Project P-504 Newton Co. $5,593, to Belknap & Son, Clear Lake, 6.616 mi. U. S. Highway 20, Project P-239, Buchanan Co. $33,786, to J. H. Miller, Newton 6.21 mi. Project P-260 Butler Co. $30,056, 9.814 mi. Project P-99, Jasper Co. $53,609 and 13.285 mi. U. S. Highway 61, Project P-481, Muscatine Co. $83,339, to Brereton & Bauch, Emmetsburg, 1.745 mi. Project P-500 Emmet Co. $9,499, to J. B. Hannah, Keokuk, 0.53 mi. Project F-34, Keokuk Co. $2,180, to W. M. Cummings, Ottumwa, portion U. S. Highway 61, Project P-480 Lee Co. $45,481, to Hughes Constr. Co. Des Moines, 20,403 cu.yd. U. S. Highway 32, Project F-206 Polk Co. $11,572 and to Craig Constr. Co., Des Moines, same road $2,790, to G. Conson, Omaha, Neb., 5.382 mi. Project P-298 Pottawatomie Co. $40,248, to C. C. Barnes & Son, 313 Equitable Life Bldg., Des Moines, 6.937 mi. Project P-484, Ringgold Co. $48,002, to J. Wachler & Co., 1805 Dodge St., Omaha, Neb., 1.04 mi. Project P-376, Union Co. $8,721 and 4.967 mi. Project P-491, Union Co. $31,032, to O'Hanlon & Reilley, Omaha, Neb., 4.374 mi. Project P-474, Wright Co. $21,949, to Material Supply Co., Boone, 8,000 cu.yd. bridge fill on U. S. Highway 34, Project F-3, Jefferson Co. $3,600. Grand total $1,693,023.

Iowa—Henry Co. (Mt. Pleasant) and Lee Co. (Ft. Madison)—Grading, 7 in. concrete paving, etc. 116,581 sq.yd. Coleman Rd., to Harrison Eng. & Constr. Co., Mutual Bldg., Kansas City, Mo., $270,216. Noted Aug. 4.

Ia., Cedar Rapids—Linn Co. crushed rock surfacing 10,500 sq.yd. County Road 14, to Falcon & Reinking, Inc., 216 Cedar Rapids Natl. Bank Bldg., $25,672, and graveling 16,765 sq.yd. Primary Road 11, to M. O. Weaver, Iowa Falls, $25,012.

Ia., Danbury—J. C. Jacobson, town clk., curbing, guttering and paving 40,000 sq. yd. various streets, to Amodeo Paving Co., 1420 Woodlawn Ave., Des Moines. Noted July 7.

Ia., Eagle Grove—To O. P. Herrick, 704 Observatory Bldg., Des Moines, brick paving 10,589 sq.yd. various streets, at $1.69 per sq.yd., removing old pavement, at $0.12; to Municipal Eng. Co., 421 Hubbell Bldg., Des Moines, 1 in. sheet asphalt resurfacing 11,398 sq.yd. various streets, at $0.97.

Ia., Nevada—Story Co. to Moore & Eldridge, Clemens, improving Secondary Graveling Dists. 9, 9½, 37, 39, 47 and 50, 9,200 cu.yd. gravel at $0.32 and $0.30, 8,000 cu.yd. gravel complete on road at $1.60 and $1.90, 203,250 units gravel ½ mi. haul at $0.062 and 1,850 cu.yd. stripping at $0.20.

Ia., Pella—A. C. Kuyper, city clk., integral curbing and concrete paving 75,000 sq.yd. various streets, to J. S. McLaughlin & Sons Co., 519 Insurance Exchange Bldg., Des Moines. $176,576. Noted June 30.

Ia., Sioux City—Woodbury Co., 6 in. concrete paving, to Western Asphalt Paving Co., 2100 East 4th St., at $2.44 per sq.yd.

Minnesota—State Hy. Comn., St. Paul (**F.A.P. means Federal Aid Project and S.P. State Project**), grading 92,000 cu.yd. F.A.P. 407, S.P. 28-31, to W. A. Hollern, St. Cloud, $42,839; grading, concrete paving, etc. 21,000 sq.yd. S.P. 2-30, Sect. 2, F.A.P. 386, to E. W. Hallet, Crosby, $39,676 and 168,000 cu.yd. excav. Sect. 3 same project to Babcock, Boomer & Babcock, Winnebago, $56,933 and culverts, $2,159. Grand total $141,607. Noted July 21.

Minn., Crookston—Polk Co. improving 12 mi. Job 2703, Crookston-Melvin Rd., 130,000 cu.yd. excavation, to H. P. Lund & Sons, Thief River Falls $27,781; and 6 monolithic culverts, to Crookston Cement Products Co., Crookston $4,420. Noted July 14.

Minn., East Grand Forks—Paving, etc. approximately 38,650 sq.yd. various streets, to Woodrich Constr. Co., 808 Metropolitan Life Bldg., Minneapolis, $99,862.

Minn., Moorhead—Rock concrete paving 23,200 yd. in City Paving Projects 19 and 20, to A. F. Johnson Constr. Co., 747 Plymouth Bldg., Minneapolis $74,200.

Kan., Goodland—Sherman Co., graveling, 15.813 mi. Federal Aid Project 263-C, 30 ft., to San-Ore Constr. Co. Inc., McPherson, $25,038. Noted July 7.

Kan., Wellington—For grading, curbing, guttering and concrete paving, etc., 10,936 sq.yd. various streets to Globe Constr. Co., 1041 North Water St., Wichita, $27,822. Noted June 30.

Neb., Lindsay—For 6 in. Johnson concrete (granite) paving 6 blocks various streets, to Booth & Olson, 318 Grain Exch. Bldg., Sioux Falls, Ia. $35,500.

Neb., Omaha—Sheet asphalt paving, etc. approximately 12,000 yd. various streets, to F. L. Busche, 4118 North 30th St. at $1.96 per yd. Engrs. est. $50,000.

Neb., Wausa—Rein.-con. paving, etc. 17,000 yd. various streets, to Metz Constr. Co., Springfield $39,963. Noted July 7.

Mont., Butte—Improving Harrison Ave., 11,180 yd. asphaltic concrete paving, 3,354 yd. shoulders and 23,991 yd. waterproofing, etc., to J. C. Maguire, Metals Bank Bldg., Butte $29,774.

Mo., St. Louis—See "Proposed Work." under Buildings—Industrial.

Arkansas—State Hy. Dept., Little Rock, graveling 3.163 mi. State Aid Project C-2-S4-C, Columbia Co., to Mississippi-Arkansas Constr. Co., Home Insurance Bldg., Little Rock, $18,811 and 7.81 mi. State Aid Project C-59-S1-A, Chicot Co., to Selz Constr. Co., McGehee, $13,169, 7.95 mi. road between Texarkana and Louisiana State Line, State Aid Project C-71-S1, Miller Co., to J. Newkirk, Rustin, La., $42,776; 200 ft. bridge rein.-con., and steel between Texarkana and Louisiana State line, State Aid Project C-71-S1-B, Miller Co., and 355 ft. bridge rein.-con. and steel on El Dorado-Smackover, Federal Aid Project 182-A, Union Co., to McGuire & Cavender, Clinic Bldg., Texarkana, $16,286 and $40,165 respectively; 16. 328 mi. road between Thornton and Hampton, State Aid Project 115-C-S3-A, Calhoun Co., to Lynch & Hill, Rector Bldg., Little Rock, $48,964; concrete paving on 10.814 mi. El Dorado-Smackover Road, Federal Aid Project 182-A, Union Co., to Kochtitzky & Prosser, Carbondale, Ill., $321,811; 6.058 mi. road between Lee-Phillips Co. line and Barton, Federal Aid Project 192-C, Phillips Co., to F. D. Harvey & Co., Jonesboro, La., $17,687. Grand total $519,669.

Arkansas—State Hy. Com., Little Rock, for grading, and concrete paving 6.306 mi. Warren North Road Federal Aid Project 229-A, Bradley Co., to Lawrence Constr. Co., Lamar Life Bldg., Jackson, Miss., $146,430; also graveling 14.788 mi. road between Ouachita-Calhoun county line and Hampton to Mississippi Arkansas Constr.

Streets and Roads (Continued)

Co., Home Insurance Bldg., Little Rock, $24,602.

Arkansas—State Hy., Comn., Little Rock, grading, graveling 9.59 mi. Hope-Lewisville Rd., Lafayette Co., Federal Aid Project 215-B, to Tarrant & Miles, El Dorado, $43,251.

Ark., Ft. Smith — Sebastian Co., 1,240 sq.yd. concrete paving Sect. A and 11,000 sq.yd. 6-in. concrete slab surfacing Sect. B, County Highway, to Kaw Paving Co., New England Bldg., Topeka, Kan., $27,400.

Texas—State Hy. Dept., Austin, retreating surface 34 mi. roads in Colorado and Fayette Counties to Brown & Root, Georgetown, $54,381.

Tex., Abilene—Taylor Co. grading, etc. 10.38 mi. Highway 1, Federal Aid Project 4441, 26 ft. to F. Purvis, 1009-10 W. T. Waggoner Bldg., Fort Worth, $18,757. Engrs. est. $25,000. Noted Apr. 7.

Tex., Anderson—Grimes Co., rein.-con. paving etc. 6.71 Highway 6, Federal Aid Project 471-B, to A. Smith, Bryan, $167,667. Engrs. est. $185,000.

Tex., Barstow—Ward Co., asphaltic paving, etc. 11.13 mi. Highway 1, 16 ft. to H. K. McCollum F & M Bank Bldg., Fort Worth, $30,871. Engrs. est. $30,500.

Tex., Carrizo Springs—Dimmit Co., rock asphalt paving 14 mi. Highway 55, to Colglazier & Hoff, 941 Austin St., San Antonio, $33,815.

Tex., Dallas—Dallas Co. grading, and 7 in. concrete or 2 in. bitulithic concrete (Modified Topeka) on 6 in. concrete paving 0.703 mi. Highway 6, Mockingbird Lane Project, to Austin Bridge Co., 1815 Clarence St., Dallas, $25,722.

Tex., Fairfield—Freestone Co., rein.-con. paving 6.86 mi. Highway 7, Federal Aid Project 462, to F. P. McElwrath, Corsicana, $181,282.

Tex., Falfurrias—Brooks Co. grading, bridging and concrete paving, etc. on Highways 12 and 16, to Southwestern Bitulithic Co., c/o Gunter Bldg., San Antonio, $418,-154. Noted June 30.

Tex., Fredericksburg—Gillespie Co. 3 to 4 in. crushed stone paving 14.1 mi. Highway 9, to P. Schriewer, Seguin, $31,688.

Tex., Galveston—Galveston Co. concrete paving with shell shoulders, etc. 4.963 mi. Highway 6, 20 ft. to J. W. Zempter & Co., 2101 G St., Galveston, $185,507. Engrs. est. $223,000.

Tex., Harrisburg—Harris Co. (Houston) paving 2 mi. La Porte Rd. here, to A. M. Arnold, 1602 Elder St., Houston, $43,838. Engrs. est. $50,000.

Tex., Houston—Harris Co. grading and bridging, Sect. "A" Market Street Rd., to Brown & Root, Post Dispatch Bldg., $139,-147. Engrs. est. $150,000.

Tex., Panhandle—Carson Co., grading, bridging, etc. 10.026 mi. Highway 33, Federal Aid Project 421-E, and 9.830 mi. Highway 33 between St. Francis and Panhandle, to Tibbetts Constr. Co., Joseph Bldg., Ft. Worth, $26,079 and $23,434 respectively.

Tex., Sulphur Springs—Hopkins Co. rein.-con. paving 24 mi. Highway 1, Federal Aid Project 431-B, to Jagoe Constr. Co., Box 418, Denton, $351,851. Engrs. est. $375,000.

Tex., Wharton—Wharton Co. grading, bridging, etc. 12.466 mi. Highway 12, 26 ft. to S. F. Vann, Trinity, $59,574.

Oklahoma—State Hy. Dept. Oklahoma City (**F. A. P. means Federal Aid Project, S. A. P., State Aid Project and e. e., engineers estimate**), to Rightmire & Baldwin, 108 East Grand Ave., Ponca City, grading, concrete paving, etc. 15,378 sq.yd. S. A. P. 338, Alfalfa Co., $37,561, e.e. $40,000, 11,258 sq.yd. Blackwell-Ponca City Rd., Kay Co., $25,893, e.e. $27,000 and 10,978 sq.yd. S. A. P. 399-A, Woods Co. $28,149, e.e. $30,000, to Highway Constr. Co., Kennedy Bldg., Tulsa, 69,449 sq.yd. S. A. P. 339, Alfalfa Co. $159,585, e. e. $175,000, to Hyde Constr. Co., American Bank Bldg., Enid, 68,601 sq. yd. F. A. P. 148-H, Grant Co., $149,322, e. e. $160,000, to E. W. Baker & Co., Medical Arts Bldg., Oklahoma City, 2,977 sq.yd. F. A. P. 148-J Grant Co. $6,310, e. e. $7,500, to Flynn Constr. Co., 2242 West 20th St., Oklahoma City, 87,903.8 sq.yd. F. A. P. 165-A, Kay Co. $192,229 e. e. $200,000, to Stanton & Wallace, Leavenworth, Kan., 21,120 sq.yd. Newkirk-Peckham Rd., Kay Co. $46,464 e. e. $50,000, to J. S. Martin, Hartshorne, 4,957 sq.yd. S. A. P. 354, Pittsburg Co. $11,974, e. e. $15,000; to H. L. Cannady & Co., 1122 South Lewis St., Tulsa, sheet asphalt paving 88,798 sq. yd. F. A. P. 175, Hughes Co. $240,820, e. e. $260,000, to Ward, Beekman & Brooks, 1801 East 9th St. Oklahoma City, 58,961 sq.yd. F. A. P. 186-A, Pittsburg Co. $160,336, e. e. $175,000; to Witt & Bolton, Grandfield, grading, etc. 10.05 mi. F. A. P. 215-A and B Commanche Co. $29,504, e. e. $30,000, to Patterson & Patterson, South Bickford St., El Reno, 9.76 mi. County Project 163-E and F, Canadian Co. $74,010, e. e. $80,000, to J. Ables, Modill, 5.718 mi. F. A. P. 196-C, Haskell Co. $19,989, e. e. $25,000, to Pharoah & Fell, Henryetta, 5.845 mi. S. A. P. 327-E, Le Flore Co. $72,894, e. e. $80,000, and 9.2 mi. F. A. P. 235-B and C, Pontotoc Co. $41,478, e. e. $50,000, to R. R. Tway, Empire Bldg., Oklahoma City, 3.345 mi. F. A. P. 230-C, Noble Co., $17,432, e. e. $20,000, to Taylor & Younger, Oil Exch. Bldg., Oklahoma City, 12.1 mi. F. A. P. 231-A and B, Noble Co. $96,991, e. e. $110,000, to M. A. Swatek, 519 West Main St., Oklahoma City, 0.9094 mi. F. A. P. 186, C and D, Pittsburg Co. $17,986, e. e. $20,000 to J. J. Harrison, Oil Exch. Bldg., Oklahoma City, 7 mi. F. A. P. 235-A Pontotoc Co. $38,370, e. e. $45,000. Grand total $1,467,297. Noted July 21.

Washington—State Hy. Comn., Olympia, (**S.R. means State Road, and F.A.P., Federal Aid Project**), grading, etc. 104,000 cu.yd. S.R. 2, Sect. 2, F.A.P. 114-C, Kittitas Co., to Myers & Goulter, 2621 Franklin Ave. Seattle $96,458, 77,600 cu.yd. S.R. 2, Sect. 2, F.A.P. 114-B, Kittitas Co., and 131,000 cu.yd. S.R. 2, Sect. 1, F.A.P. 114-C, Kittitas Co., to Coyle Constr. Co., 901 Westlake Ave., N., Seattle, $124,403 and $137,775 respectively, also 221,500 cu.yd. S.R. 2, King Co., to A. Besoloff, 1715 12th Ave., Seattle $135,880; crushed graveling, etc. 21,410 cu.yd. S.R. 8, Clark and Skamania Counties, to L. Welch, R.F.D. 1, Box 21 A, Vancouver $20,270, and 10,970 cu.yd. S.R. 9, Clallam Co., to C. E. Martin, R.F.D. 3, Box 160, Seattle $15,396; concrete paving, etc. 61,515 sq.yd. S.R. 3, F.A.P. 169-A, Walla Walla Co., to Midstate Contract Co., Box 33, Yakima $158,642, 49,362 sq.yd. S.R. 1, Clark Co., to Albertson, Cornell Bros., & Walsh, 1113¼A St., Tacoma $138,-319, 31,500 sq.yd. S.R. 12, F.A.P. 131-C, Lewis Co., to Alexander & McNeil, Mt. Vernon $93,462; also crushed rock surfacing, etc. 12,500 cu.yd. S.R. 3, Sect. 1, F.A.P. 152-B, Whitman Co., to Crick & Kuney, 303 Baker Bldg., Walla Walla $67,645. Grand total $988,250. July 21.

Buildings—Commercial

Proposed Work

Me., Farmington — HOSPITAL — Bd. Trustees Franklin Co. Memorial Hospital, having plans prepared by H. C. Pelton, 415 Lexington Ave., New York City, 3 story and basement, 40 x 160 ft., hospital. $160,-000. Noted July 6.

Mass., Jamaica Plain (sta. Boston)—HOSPITAL — Faulkner Hospital, 1153 Centre St., having revised plans prepared by C. T. Thayer, 89 Franklin St., Boston, 4 story and basement, 45 x 150 ft., brick addition, plain foundation, $150,000 or more. Former bids rejected.

Conn., New Britain—BUSINESS—L. R. Raphael, 382 Main St., soon lets contract 5 story and basement, brick and steel, Main St. To exceed $150,000. Hopkins & Dentz, 415 Lexington Ave., New York City, archts.

N. Y., New York—BANK—National City Bank, 55 Wall St., having plans prepared by Walker & Gillette, 128 East 37th. St., 2 story, 30 x 100 ft. bank, 123 East 86th St. $150,000.

N. J., Asbury Park — HOTEL — Kelly Bldg. Co., plans 10 story brick and steel, plain foundation, Kingsley St., 8th Ave. and Deal Lake. $1,500,000. Engineer and architect not selected.

N. J., Bayonne — HOSPITAL — Jewish Hospital Assn., A. Bernstein, pres., 2852 Hudson Blvd., takes competitive sketches about Oct. 15, 4 story, brick and steel, plain foundation, Blvd. and 49th St., here. $2,000,000. Engineer and architect not selected. Noted June 30.

N. J., Bloomfield — APARTMENTS — Lifton Realty Co., 13 Broad St., Newark, having plans prepared by L. Kasoff, 164 Market St., Newark, 4 story and basement, 110 x 165 ft., brick and steel, plain foundation, Linden and Ashland Aves. $200,000.

N. J., Bloomfield — APARTMENT — J. Simon, 316 Smith St., Newark, having plans prepared by Siegler & Greenburg, 164 Market St., Newark, 3 story and basement, 110 x 120 ft., brick and steel, plain foundation, Berkley Ave. $150,000.

N. J., Bloomfield—TOWN HALL—Town, 41 Washington Ave., soon takes bids 3 story, brick and steel, plain foundation, Franklin St., here, $250,000. W. O. Bartlett, 738 Broad St., Newark, archt. F. R. Dwyer, 31 Clinton St., Newark, engr. Noted June 16.

N. J., Camden—HOSPITAL—Dept. Pub. Health, W. S. Price, mayor, having plans prepared by Edwards & Green, 548 Federal St., hospital, on Pershing and Sheridan Sts. $1,000,000. Noted July 28.

N. J., Englewood—APARTMENT—Matthew Quinn Corp., 110 West 40th St., New York City, having plans prepared by C. G. Eichholz, Jr., 960 Bergenline Ave., Union City, 5 story and basement, 100 x 150 ft., Hillside Ave. and Spring Lane. $1,500,000.

N. J., Kearny—APARTMENT—F. Sherwood, c/o Kelly & Cowan, archts., 921 Bergen Ave., Jersey City, having plans prepared, 3 story and basement, 100 x 135 ft. brick and steel, plain foundation, 6-10-14 Woodland Ave., $150,000.

N. J., Montclair—STORE, LODGE ROOM, etc.—W. Grigsby, 22 Orange Rd., having revised plans prepared by S. Van Antwerp, 14 South Park St., 3 story and basement, 50 x 100 ft., brick and steel, plain foundation, Bloomfield Ave. $150,000.

N. J., Newark—APARTMENT—Owner c/o L. Kasoff, archt., 164 Market St. having plans prepared 5 story and basement, 75 x 125 ft., brick and steel, plain foundation, 9th St., here. $150,000.

N. J., Newark—HOTEL, THEATRE and ARENA—Newark Auditorium Inc., E. I. Clark, 671 Broad St., had plans prepared and soon takes bids 20 story and basement 160 x 510 ft. rein.-con., brick and steel, Washington and James Sts. $6,000,000. T. W. Lamb, 644-8th Ave., New York City, archt., H. H. Marshall, 37 West 43rd St., New York City, engr. Noted July 21.

N. J., Newark—OFFICE—E. V. and C. F. Warren, archt., Essex Bldg., soon takes bids general contract 2 story and basement, 50 x 276 ft. rein.-con., brick and steel, plain foundation, Washington and Plumb Streets, $150,000.

N. J., North Bergen (br. Weehawken)—APARTMENT—R. Francesconi, 39 18th St., West New York by G. Willaredt, 411 23rd St., West New York having plans prepared, 5 story and basement, 75 x 100 ft. brick and steel, plain foundation, Bergenline Ave. and 32nd St., here. $150,000.

N. J., Palisade Park—APARTMENT—A. Pumot Co., 765 Hudson Ave., West New York, having plans prepared by G. W. Dexter, 1012 Palisade Ave., Palisade, 5 story and basement, 75 x 100 ft. brick and steel, plain foundation, Columbia Ave. and Edgewood Lane, here. $150,000.

N. J., Paterson—GARAGE and SHOP ROOM—Owner, c/o A. E. Sleight, archt., 138 Washington St., had plans prepared, 2 story, 215 x 250 ft., brick and steel, plain foundation, Allison Pl. $250,000.

N. J., Paterson—SHOW ROOM and SERVICE STATION—A. E. Sleight, archt., 138 Washington St., soon lets contract 1 story and basement, 100 x 300 ft., brick and steel, plain foundation, Market and 36th Sts. for J. A. McCrane Motor Co., 638 Market St. $150,000. Noted July 21.

N. J., Paterson—STORES and GARAGE—J. T. Jordon, 109 Washington St., having plans prepared 3 story and basement, brick and steel, plain foundation, 21-29 Bway. $150,000. Private plans.

N. J., Ridgewood—THEATRE, OFFICE and STORE—North Oak Improvement Co., c/o P. Vivarttas, archt., 110 48th St., Union City, having preliminary plans prepared, 3 story, brick and steel, plain foundation, Oak St. and Franklin Ave., here. $500,000.

Ky., Murray—HOTEL—Natl. Hotel System, Inc., 317 North 11th St., St. Louis, Mo., having plans prepared by Klingensmith, Rice & Wilkins, 317 North 11th St., St. Louis, Mo., and Jamieson & Eddings, associated archts., Paducah, 3 story and basement, 50 room, brick, plain foundation, here. $150,000.

O., Shaker Heights (mail Cleveland)—APARTMENT—Van Sweringen Realty Co., c/o Small & Rowley, archts., 1836 Euclid Ave., Cleveland, had plans prepared 3 story and basement, 33 x 98 ft., 24 x 32 ft., and 38 x 82 ft., brick, here. $200,000.

Mich., Detroit—CLUB—Gabriel Richard Council, Knights of Columbus, 8127 East Jefferson Ave., having plans prepared by C. E. Schley, 1121 Lafayette Bldg., 4 story and basement, rein.-con., brick and steel, plain foundation East Jefferson Ave. Archts. est. $400,000.

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Building—Commercial (Continued)

Ill., Chicago—APARTMENT—Quinn & Christensen, archts., 360 North Michigan Ave., preparing plans and soon takes bids 13 story and basement, 60 x 125 ft., rein.-con., brick and stone, 67th St. and Crandon Ave., for Sixty-Seven-Hundred Crandon Avenue Building Corp., c/o archts. $900,000.

Ill., Chicago—APARTMENT—C. W. Westerland, archt., 612 North Michigan Ave., making sketches 7 story and basement, 50 x 135 ft., rein.-con., brick and terra cotta, Thorndale, near Sheridan Rd. $350,000. Owner's name withheld.

Ill., Chicago—APARTMENT—H. Zisook having plans prepared by T. R. Bishop & Son, 35 South Dearborn St., and soon takes bids 8 story and basement, 50 x 150 ft., rein.-con., brick and stone, 5719-21 Kenwood Ave., $500,000. Noted Jan. 20.

Ill., Chicago—APARTMENT—H. Zisook, soon takes bids 3 story and basement, 100 x 170 ft., brick and stone, Lunt Ave. and Paulina St. $275,000. T. R. Bishop & Son, 35 South Dearborn St., archts.

Ill Chicago—CLUB—Womans Athletic Club, 606 South Michigan Ave., having sketches made by P. B. Maher, 157 East Erie St., 18 story, 75 x 100 ft. club building, Michigan Ave. and Ontario St.

Ill., Chicago—HOSPITAL—D. G. Wallace, archt., 22 West Monroe St., preparing plans and soon takes bids 8 story and basement, 40 x 115 ft., rein.-con., brick and stone, 61st St. and Drexel Ave., for Woodlawn Hospital, c/o archts. $300,000. F. A. Randall, 160 North La Salle St., engr.

Ill., Chicago—HOTEL—Syndicate, c/o W. Bernhardt & Co., archts., having sketches mafide 8 story and basement, 50 x 125 ft., rein.-con., Center St. and Hudson Ave. $650,000.

Ill., Chicago — THEATRE, STORE and APARTMENT—J. Horwitz, 10 South La Salle St., had plans prepared by G. E. McClellen, 7441 Cottage Grove Ave., and soon takes bids 3 story and basement, 123 x 223 ft., rein.-con. and brick, 119th St. and Eggleston Ave., $600,000. Noted June 9.

Ill., Chicago—Perkins, Chatten & Hammond, archts., 160 North La Salle St., preparing plans and takes bids about Sept. 1, 5 story and basement, 125 x 215 ft., rein.-con., brick, stone and steel Y.M.C.A. Building, 3333-41 North Marshfield Ave., for Y.M.C.A., 19 South La Salle St. $750,000. F. A. Randall, 160 North La Salle St., engr. Noted Mar. 3.

Ill., Oak Park—APARTMENT—Meyer & Cook. archts., 820 Tower Court, preparing plans and soon takes bids 3 story and besement, 100 x 116 ft., and 65 x 100 ft., brick and stone, Holley Court and Marion St., for R. E. Nicholas, Oak Park, $225,000.

Wis., Clintonville—HOTEL—Clintonville Hotel Co., H. Brooks, pres., having plans prepared by Oppenhamer & Obel, Green Bay, 3 story and basement, 65 x 100 ft., rein.-con., brick and steel, plain foundation. $150,000.

Wis., Menasha—CLUB HOUSE—Menasha Aerie, c/o C. Meyer, having plans prepared by C. C. Reynolds, Michigan Bldg., Green Bay, 2 story, rein.-con., brick and steel, plain foundation. $150,000.

Minn., Minneapolis — HOSPITAL—State Dept. Administration & Finance, State Capitol, St. Paul, having plans prepared by C. H. Johnston, 714 Capital Bank Bldg., St. Paul, 5 story and basement, 48 x 98 ft. hospital, 4 story and basement diagnostic unit, and 4 story and basement, health service building, all rein.-con. and brick, State University, here. $200,000 each.

Calif., Los Angeles—APARTMENT—Lilly-Fletcher Syndicate, c/o Walker and Eisen, archts., Western Pacific Bldg., having preliminary plans prepared 13 story and basement, rein.-con., pressed brick and terra cotta, Wilshire and Alexandria Aves. To exceed $1,000,000.

Bids Desired

Mass., Boston—APARTMENT—See "Contracts Awarded."

Mass., Natick—STORE and OFFICE—See "Contracts Awarded."

Mass., Quincy (Boston P. O.)—APARTMENT—See "Contracts Awarded."

R. I., Burrillville (mail Harrisville)—HOSPITAL—Aug. 12, by Public Welfare Dept., State House, Providence, brick and steel sanatorium, here. $150,000. W. Fontaine, 285 Main St., Woonsocket, archt.

N. Y., Corning—HOTEL—Aug. 22, by Thomas Martin & Kirkpatrick, archts., 220 South 16th St., Philadelphia, Pa., 5 story and basement, 70 x 140 ft., brick and steel, plain foundation, here, for Corning Hotel Corp.

N. Y., New York—APARTMENT—See "Contracts Awardad."

N. Y., New York—OFFICE—See "Contracts Awarded."

N. J., East Orange—APARTMENT—See "Contracts Awarded."

N. J., Leonia—APARTMENT—See "Contracts Awarded."

N. J., Newark—OFFICE—Public Service Corp., 80 Park Pl., taking bids 12 story, 67 x 86 ft., brick and steel, addition, plain foundation, East Park and Pine Sts., $200,000. Public Service Production Co., 80 Park Pl., archts.

N. J., North Bergen (br. Weehawken)—APARTMENT—See "Contracts Awarded."

N. J., Summit—APARTMENTS—Summit Realty Co. Inc, 9 Albion St., Passaic, taking sub-bids, two 3 story and basement, 138 x 165 ft., brick and steel, plain foundation, Euclid and Summit Aves. here. $250,000. F. Pirrone, 104 Midland Ave., Garfield, archt. Noted May 17.

Pa., Bryn Mawr—HOSPITAL—Aug. 15, by Bryn Mawr Hospital, Building A 7 story and basement, 44 x 207 ft. and Building B 4 story and basement, 46 x 51 ft. and 48 x 162 ft., rein.-con., brick and steel, plain foundation, here. Zantzinger, Bore & Medary, Otis Bldg., Phila., archts.

Pa., Phila.—APARTMENT—Aug. 17, by McIlvaine & Roberts, archts., Otis Bldg., 20 story and basement, 85 x 90 ft., rein.-con., brick and steel, plain foundation, 2031 Locust St., for C. J. McIlvaine, c/o archts. $1,000,000.

Ill., Chicago—APARTMENT—H. K. Holsman, archt., 307 North Michigan Ave., taking bids 7 story, 34 x 90 ft., rein.-con., brick and stone, 56th St. for Kenwood-Fifty-Sixth Street Building Corp., c/o archt. $200,000.

Wis., Milwaukee—STORAGE—Aug. 15, by Eschweiler & Eschweiler, archts., 210 Mason St., 8 story, 74 x 150 ft., rein.-con., plain foundation, Wisconsin Ave., for Coakley Bros., 41 2nd St. $175,000. Noted Aug. 4.

S. D., Aberdeen—HOTEL—Aug. 15, by A. L. Ward, 1216 North Main St., rebuilding 6 story and basement, 70 x 140 ft., rein.-con., brick and stone, hotel recently destroyed by fire. $300,000. Ellerbe & Co., 692 Endicott Bldg., St. Paul, Minn., archts. Noted Feb. 17.

Mo., Glendale (mail Kirkwood)—CLUB-HOUSE—See "Contracts Awarded."

Tex., Port Arthur—TEMPLE—Sept. 8, by Cosmopolitan Lodge 872, A. F. & A. M. A., E. Scott, chn. bldg. com. 3 story, and roof garden rein.-con., brick and stone, Lake Shore and Lake Charles Ave. $150,000. W. B. Ittner & Co., 911 Locust St., St. Louis, Mo., archts.

Calif., Berkeley — VETERANS' MEMORIAL BUILDING—Supervs. Alameda Co., taking bids 2 story and basement, rein.-con. and stone, $150,000. H. H. Meyers, Kohl Bldg., San Francisco, archt.

Calif., Los Angeles—APARTMENT—See "Contracts Awarded."

Calif., Merced—BANK and OFFICE—Bank of Italy, Bank of Italy Bldg., San Francisco, taking bids 3 story and basement, rein.-con. bank and office, L. and 17th Sts., here. $175,000. H. A. Minton, Eddy and Powell Sts., San Francisco, archt.

Contracts Awarded

Mass., Boston — APARTMENT — Interstate Bldg. & Constr. Co., c/o E. B. Stratton, archt., 25 Arch St., will build 3 story and basement, brick and stone, plain foundation, Chiswick and Braemore Rds. $150,000. Work to be done by separate contracts.

Mass., Natick—STORE and OFFICE—L. Waldman, 221 Washington St., Chelsea, will build 2 story and basement, 85 x 110 ft. and 85 x 85 ft., brick and stone, plain foundation, Washington and Court Sts. Work to be done by separate contracts. Private plans.

Conn Stamford — OFFICE — Stamford Gas & Electric Co., 11-17 Bank St., 6 story, 50 x 200 ft., brick and steel building here, to J. Lowry Inc., 270 Madison Ave., New York City, N. Y. Archts. est. $350,000. Noted Apr. 14.

Mass., Quincy (Boston P. O.)—APARTMENT—Abrahamson & Cohen, 333 Washington St., Boston, will build 3 story and basement, 75 x 100 ft., brick and stone, plain foundation, Waterson St., by day labor. $150,000. S. S. Levy, 35 Court St., Boston, archt.

Mass., West Springfield (br. Springfield)—APARTMENT—W. B. Chandler, 3rd West Springfield Corp. Bank, 3 story and basement, 60 x 110 ft. brick, plain foundation, to A. J. Gagnier, 1537 Main St., Springfield.

Conn., Bridgeport — BANK — City Natl. Bank, 12 story, 60 x 150 ft., brick and steel, Main and John Sts. to Dwight P. Robinson & Co., 125 East 46th St., New York Ctiy. Archts. est. $800,000. Noted July 14.

Conn., Bridgeport—HOSPITAL—Hospital Dept., W. H. Holsey, supt., altering and constructing 3 story and basement, 200 x 210 ft., brick, plain foundation, to T. Stewart, 64 Ashley St. Noted July 7.

Conn., Middletown—OFFICE — Middlesex Mutual Assurance Co., c/o E. B. Caldwell, Jr., archt., 886 Main St., Bridgeport, 2 story, 60 x 72 ft., brick, steel and marble, to H. Wales Lines Co., 134 State St., Meriden, Archts. est. $150,000.

N. Y., New York—APARTMENT—Marcus Brown Construction Co., 171 West 79th St., will build 15 story, 100 x 100 ft., brick and steel, concrete foundation, 113-121 East 86th St. Work will be done by separate contracts. G. F. Pelham, 570 7th Ave., archt.

N. Y., New York—APARTMENT—F. Willetts, 280 Madison Ave., 13 story and basement, 100 x 100 ft., 90th St. and Madison Ave. to Willetts Constr. Co., 114 East 32nd St.

N. Y., New York—OFFICE and STORE—General Society of Mechanics & Tradesmen, 7 story, 27 x 98 ft., brick and steel, concrete foundation, 239 Broadway, to J. Schlesinger Inc., 110 West 40th St. $300,000.

N. Y., New York—CLUB—New York Athletic Club, 58 West 59th St., 20 story and basement, brick and steel, 7th Ave. from 58th to 59th Sts. to C. T. Wills Inc., 286 5th Ave. Archts. est. $4,800,000. Noted July 7.

N. Y., New York—OFFICE—A. E. Lefcourt, 1357 Broadway, will build 31 story, 100 x 150 ft., brick, stone, and steel, Broad and Beaver Sts., $5,000,000. Work will be done by day labor. Buchman & Kahn, 49 West 45th St., archts.

N. J., East Orange — APARTMENT — Kanter & Cohen, c/o L. Kasoff, archt., 164 Market St., Newark, will build 4 story and basement, 75 x 100 ft., brick and steel, plain foundation, Glenwood Ave. and Essex St. $150,000. Work will be done by separate contracts. Noted Aug. 4.

N. J., East Orange—APARTMENT—Sharff & Koplowitz, 207 Market St., Newark, will build 4 story and basement, brick and steel, plain foundation, Arlington and Elmwood Aves. $240,000. Work will be done by separate contracts. Noted Aug. 4.

N. J., Elizabeth—BANK and OFFICE—R. C. Edwards, archt., 255 North Broad St., 2 story, 65 x 80 ft. brick and steel, plain foundation, Broad St. to C. Griffen, R.F.D. 1 Towley, for River Park Co. Natl. Bank, 60 Broad St. $150,000. Noted July 21.

N. J., Leonia—APARTMENT—Gerdin Realty Corp., Broad Ave., will build 5 story and basement, brick and steel, plain foundation, Broad and Christie Sts. $150,000. Work will be done by separate contracts. Private plans. Noted Aug. 4.

N. J., Newark—BANK—Hayes Circle Nat. Bank and Trust Co. c/o Necarsulmer & Lihlbach, archts., 420 Lexington Ave., New York City, 2 story, brick and steel, plain foundation, Hayes Circle here to L. D. Kilgus, 11 Coes Pl., Newark, N. J. $150 000. Noted July 7.

N. J., North Bergen (br. Weehawken)—APARTMENT and STORE—Woodcliffe Plumbing & Heating Supply Co., 39 18th St., West New York, will build 5 story and basement, brick and steel, plain foundation, Bergenline Ave. and 32nd St. here. $150,000. Work will be done by separate contracts. G. Willaredt, 411 23rd St., West New York, archt.

Pa., McKeesport—HOSPITAL—McKeesport Hospital, general contract 2 and 3 story and basement, irregular shaped addition, here, to P. L. Fleckenstein, 1300 Grandview Ave. Archts. est. $150,000.

Pa., Phila.—APARTMENT—P. J. Hannigan, Rising Sun Ave. and Roosevelt Blvd., 4 story and basement, 75 x 209 ft., brick and steel, plain foundation, here, to W. W. Anstine, Frankford Ave. and Oxford St. Archts. est. $225,000.

Pa., Phila.—DISPENSARY—Eaglesville Hospital & Sanatorium for Consumptives. c/o J. H. Loucherm, Franklin Trust Bldg., 2 story and basement, 50 x 72 ft., rein.-con.,

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Buildings—Commercial (Continued)

brick and steel, plain foundation, Broad and Fitzwater Sts., to P. M. Sax Constr. Eng. Co., Penfield Bldg. Total est. $150,000. Noted June 23.

Pa., Pittsburgh—APARTMENT—Development Corp. of America, Webster Hall, 3 story and basement, irregular shaped, brick and steel, Bayard St., to Peter A. Miller & Co., 900 Majestic Bldg., Detroit, Mich. Archts. est. $200,000.

O., Canton—HOSPITAL—Stark County County Tuberculosis Hospital, Court House, 2 and 3 story and basement to Melbourne Bros., 1220 9th St. N. E. $440,978. Engrs. est. $550,000.

Mich., Detroit—EXCHANGE—Michigan Bell Telephone Co., Cass Ave., 3 story and basement, 105 x 116 ft., rein.-con., brick and steel, plain foundation, Selden Ave., to A. W. Kutsche, 2211 Woodward Ave. Archts. est. $900,000. Noted June 23.

Mich., Detroit—THEATRE and OFFICE—Fox Washington Theatre, W. Schaffer, mgr., 1016 Washington Blvd., 10 story and basement, 200 x 325 ft., rein.-con., brick and steel, Woodward Ave., to G. C. Aronberg & Freid Co., 21 East 40th St., New York City, N. Y.

Ill., Chicago—APARTMENT—B. L. Steif & Co., archts., 307 North Michigan Ave., masonry, excavation, concrete, tile, waterproofing, etc. contract 16 story and basement, 87 x 100 ft., rein.-con., brick and terra cotta, 2-16 West Elm St., to A. Lindstrom, 77 West Washington St., for S. Cole, 307 North Michigan Ave. Archts. est. $550,000. Noted May 19.

Ill, Chicago—APARTMENT—C. V. Hatzfield, archt., 7 South Dearborn St., masonry and carpentry contract 5 story, 85 x 100 ft., brick, 1157-1165 Diversey Parkway, to C. E. Erickson & Magnusson, 4753 Bway.; plumbing and heating, to E. B. Kaiser, 625 Webster Ave., for E. Dirks, 1168 Diversey Ave. Archts. est. $385,000. Noted May 12.

Ill., Chicago — APARTMENT — Koeingsberg & Weisfeld, archts., 155 North Clark St., masonry and concrete contract 13 story, 50 x 150 ft., 1246 Pratt Blvd.; carpentry, to L. Nelson, 7106 Crandon Ave.; plumbing, to T. Litvin, 3306 Armitage Ave.; heating and refrigeration, to Krane Eng. Co., 1428 Orleans St. and plastering, to W. Brandenberg, 221 South Leavitt St., for Twelve-Hundred-Forty-Six Pratt Building Corp., c/o architects. Noted July 7.

Ill., Chicago — APARTMENT — Koeingsberg & Weisfeld, archts., 155 North Clark St., masonry and concrete contract 7 story, 50 x 135 ft., 5737 Kenmore Ave., to Complete Artificial Stone Co., 3310 Belmont Ave.; plumbing, to Noble & Thumm, 1065 Addison Ave.; heating, to W. F. Thumm, 2549 Lawrence Ave. Archts. est. $425,000. Noted Apr. 14.

Ill., Chicago—APARTMENT, STORE and GARAGE—Syndicate, incl. H. F. Knipp, 4802 Bway, et al., masonry contract 3 story, 47 x 115 ft., fireproof apartment and stores, also 2 story, 180 x 250 ft., rein.-con. garage, 3531-51 Bway., to Dahlberg & Sundrin, 6425 Washtenaw Ave. Archts. total est. $1,115,000.

Ill., Chicago—APARTMENT—F. Stanton, archt., 310 South Michigan Ave., masonry contract 3 story and basement, 75 x 135 ft. brick, 6317-21 Kenmore Ave., to Stronberg & Sedberg, 6312 Broadway Ave., for W. E. Eldrid, 6244 Winthrop Ave. Archts. est. $250,000. Noted Jan. 27.

Ill., Chicago—APARTMENT—Lake Shore Building Corp., 155 North Clark St., masonry contract 16 story, 94 x 174 ft., concrete, 3914-29 Lake Shore Dr., to E. Erickson & Co., 4763 Broadway Ave. Archts. est. $1,000,000.

Ill., Chicago—APARTMENT—Jonck & Elmann, archts., 140 South Dearborn St., archts., masonry contract Patrician Annex, 17 story rein.-con., brick and terra cotta, 405 Fullerton Ave., to Shellberg Constr. Co., 6712 North Slark St.; plumbing and heating, to Nilson Bros., 3222 Norfth Halsted St., for W. L. Wallen & Sons, 6712 North Clark St.

Ill., Chicago—HOTEL—Linbold & Carlson, archts., 155 North Clark St., concrete contract 4 story and basement, 48 x 175 ft., brick, stone and terra cotta, plain foundation, 63rd St. and Troy Ave., to Person Constr. Co., 1551 East 75th St., for J. Robinovitz, c/o architects. Archts. est. $450,000. Noted Mar. 10.

Ill., Chicago—OFFICE—De Paul Educational Society, 94 East Randolph St., general contract 16 story and basement, 72 x 140 ft., rein.-con., brick, steel and stone, Lake St. and Garland Ave., to McLennan Constr. Co. 307 North Michigan Ave. Archts. total est. $2,000,000. Noted June 30.

Ill., Chicago — OFFICE — Holabird & Roche, archts., 104 South Michigan Ave., general contract Post Building, 19 story, basement and sub-basement, 60 x 150 ft., granite, cut stone, brick and terra cotta, 211-15 Wacker Dr., to McLennan Constr. Co., 307 North Michigan Blvd., for Chicago Evening Post, 12 South Market St. $3,-150,000.

Ill., Chicago — OFFICE — Rissman & Hirschfield, archts., 228 North La Salle St., masonry and carpentry contract 24 story and basement, 72 x 140 ft., brick, steel and stone, 6373 South Water St., to Dilks Constr. Co., 160 North La Salle St., for Garland Court Bldg. Corp., c/o architects. Archts. est. $2,000,000.

Ill., Chicago—THEATRE, APARTMENT and STORE—H. Cutler, 2953 West Grand Ave., masonry contract 3 story, 125 x 175 ft., 4921-35 West Chicago Ave., to H. McHugh & Son, 840 West 70th St., carpentry contract, to Olsen Bros., 6901 Euclid Ave. Archts. est. $300,000.

Ill., Chicago—WAREHOUSE and BAKERY—Consumers Sanitary Coffee & Butter Co., 5000 South Halsted St., masonry, carpentry and reinforcing contract 3 story, 142 x 282 ft., warehouse and 3 story, 60 x 170 ft. bakery, 83rd St. and Vincennes Ave., to H. Erickson Co., 228 North La Salle St., Archts. total est. $1,000,000. Noted May 26.

Ill., Waukegan—HOTEL—N. K. Gibson, archt., 624 South Michigan Ave., masonry and carpentry contract 9 story and basement, 74 x 102 ft., rein.-con., brick and terra cotta, Washington and Utica Sts., here, to E. W. Sproul Co., 310 South Michigan Ave., Chicago; terra cotta, to Northwestern Terra Cotta Co., 2525 Clayburn Ave., Chicago; structural steel, to A. Bolters Sons Co., 53 West Jackson Blvd., Chicago; electrical work, to W. A. Carraco Electric Co., 609 South Dearborn St., Chicago. Noted June 19.

Wis., Wales—INFIRMARY—State Bd. Control, Madison, A. W. Bagley, secy., 3 story and part basement, 88 x 178 ft., rein.-con., stone and terra cotta, plain foundation, here, to M. M. Moen Co., Mason City, Ia. $145,765. Noted Dec. 2.

Wis., Waukesha—HOTEL—C. W. Nicol, archt., 310 South Michigan Ave., Chicago, Ill., general contract 5 story and basement, 94 x 110 ft. rein.-con., brick and stone, Park Pl., to R. L. Reisinger & Co., 466 Oakland Ave., Milwaukee, for Waukesha Community Hotel Co., 217 Harrison Ave., $250,000. Noted May 19.

Minn., Minneapolis — APARTMENT—J. J. Gruesner, c/o P. E. Crosier, archt., 915 New York Life Bldg., will build one unit 1 story and 2 units 2 story and basement, cut stone and brick, Garfield Ave. $150,000.

Minn., St. Paul—HOSPITAL—Childrens Hospital Assn., c/o W. H. Ramsey, 459 Lowry Bldg., general contract 4 story and basement, rein.-con., brick and stone, Pleasant Ave., to C. Skooglun, 502 Ryan Bldg., St. Paul. Approximately $250,000. Noted Dec. 9.

S. D., Rapid City—HOTEL—Oldefest & Williams, archts., 605 North Michigan Ave., Chicago, Ill., general contract Hotel Alice Johnson, 9 story, 75 x 140 ft., rein.-con., brick and stone, here, to H. Carlson Co., Sioux Falls. Noted July 7.

Mo., Glendale (mail Kirkwood)—CLUBHOUSE—Westwood Country Club, M. H. Tucker, secy., Lockwood Ave. and Berry Rd., Glendale, will build 2 story and basement, 60 x 350 x 400 ft., rein.-con. and rubble stone clubhouse, incl. 35 x 75 ft. swimming pool; 9 and 18 hole golf course, tennis courts, outdoor dance pavilion, etc., by day labor; also 4 mi. irrigation system, incl. 13 mi. drain tiling, under supervision of H. D. Paddock, 7116 Hugh Ave., Cleveland, O. $300,000. Maritz & Young, Inc., Chemical Bldg., St. Louis, archts.

Mo., St. Louis—AUTO SALES and SERVICE—Vesper Buick Auto Co., Grand and Lindell Blvds., 2 story and basement, 40 x 150 ft., rein.-con. and brick, 3900-12 West Pine Blvd. and 37 North Vandeventer St., to W. H. Smith Co., 110 North 7th St. Archts. est. $150,000.

Mo., St. Louis—MARKET and CIVIC CENTER—Bd. Pub. Serv., 208 City Hall, 1 and 2 story and basement, 62 x 148 ft., rein.-con., brick and stone, 7th and Soulard Sts., to A. H. Haeseler Bldg. & Contg. Co., Wainwright Bldg., $150,151. Noted June 30.

Mo., St. Louis — THEATRE — Sigoloff Bros., 1747 Park Ave., 1 story and basement, 46 x 143 ft., rein.-con., brick, cut stone and terra cotta, 18th St. and Park Ave., to G. Moeller, 3520 Itaska St. Cost withheld.

Calif., Los Angeles—APARTMENT—P. Elvad, 3428 Amesbury Rd., will build 4 story and basement, 50 x 112 ft., brick and steel, Delongpre Ave. $150,000. Work will be done by day labor.

Calif., Los Angeles—APARTMENT—Lolita Holding Corp., c/o Contrs., 10 story and basement, 60 x 110 ft., Frankland and Western Ave. to Shave Construction Co., Subway Terminal Bldg., $550,000.

Calif., Oakland — GARAGE and AUTO SALESROOM—E. C. Anthony Co., 2111 Webster St., 2 story and basement rein.-con., Harrison Ave. to Cahill Bros., 55 New Montgomery St., San Francisco, $150,000.

Calif., Santa Monica—HOSPITAL ADDITION—Santa Monica Hospital, 3 story and basement, rein.-con. addition, 16th St. and Arizona Ave. to L. J. Bristow Co., 16th St. and Colorado Ave. $160,000. Noted Mar. 10.

Buildings—Industrial

Proposed Work

Me., Kittery—REPAIR, SERVICE, STATION and GARAGE—A. F. Cook, rejected bids 1 story, rein.-con. plain foundation, garage, $40,000. Dow, Harlow & Kimball, 184 Boylston St., Boston, Mass., archts. Noted July 6.

Mass., Boston — MANUFACTURING — Meisel Press Mfg. Co., Dorchester Ave., having revised plans prepared by H. S. Cleverdon, 46 Cornhill, Boston, 1 and 2 story, 100 x 225 ft., brick, plain foundation, Dorchester Ave. To exceed $40,000. Former bids rejected. Noted July 21.

Conn., Bridgeport—REPAIR and SALES GARAGE—F. L. Mills Co., 2316 Fairfield Ave. having plans prepared by Fletcher-Thompson Inc., 542 Fairfield Ave. 1 story, 100 x 200 ft., brick and steel, Dewey St. $100,000.

N. J., Jersey City—CHEMICAL PLANT—E. M. Paterson, archt., 76 Montgomery St., soon lets contract 2 story, 100 x 200 ft., brick and steel, plain foundation, Warren, Essex and Morris Sts., here, for Richards Chemical Wks., 190 Warren St. $100,000.

Pa., Phila—MANUFACTURING — Otis Elevator Co., 16th and Sansom Sts., having plans prepared by W. O. Moyer, 260 11th Ave., New York City, 3 story and basement, 60 x 162 ft., 19th and Buttonwood Sts.

W. Va., Charleston — WAREHOUSE — Woodrum Home Outfitting Co. having plans prepared by C. A. Haviland, 3 story, 140 x 170 ft. brick, 6th Ave. $100,000.

La., Shreveport—EXTRACTION PLANT—Natl. Gas Products Co. having plans prepared natural gas extraction plant. $150,000 incl. machinery. Private plans.

Tenn., Chattanooga—MILL—Dixie Mercerizing Mills, Watkins St., having plans prepared by Pringle & Smith, 1012 Morris Bldg., Atlanta, Ga., 2 story, 60 x 160 ft., rein.-con. addition, here. $50,000. Noted May 5.

O., Alliance—GARAGE—A. H. Althouse, Salem, plans 2 story and basement, 94 x 120 ft., rein.-con., brick and steel, East Columbus St., here. $50,000.

O., Canal Fulton—FOUNDRY—Fulton Drop Forge Co. soon takes bids 2 story foundry recently destroyed by fire. $40,000.

O., Cleveland—FACTORY—Menk Bros. Damp Wash Laundry, C. G. Menk, mgr., 643 East 103rd St., having preliminary plans prepared by H. M. Morse & Co., Finance Bldg., altering and constructing brick and steel additions, 643 E. 103rd St. $40,000.

O., Cleveland—WAREHOUSE, FACTORY, and BOILER HOUSE—Great Western Oil Co., B. W. Browne, pres., 2846 East 37th St., had plans prepared by F. F. Hodges, Hickox Bldg., 1 and 2 story, 60 x 180 ft., 24 x 40 ft., and 22 x 33 ft., brick and steel, East 37th St. $100,000.

O., Hamilton — FACTORY — Hamilton Casting & Mfg. Co., J. Weigel, pres., had plans prepared 1 story, 54 x 216 ft., brick and concrete addition. $30,000. Private plans.

O., Lancaster—FACTORY — Lancaster Tire & Rubber Co., W. W. Hunt, mgr. Sole and Heel Dept., Gugle Bldg. having sketches made, 1 story and basement, 50 x 75 ft., brick and concrete addition. $50,000. Private plans.

O., Middletown—MILL—Amer. Rolling Mill Co., G. M. Verity, pres., plans several mill buildings. $200,000.

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Buildings—Industrial (Continued)

O., Zanesville—POTTERY—S. A. Meller Art Pottery Co., H. Meller, Pres., plans 2 story brick and steel pottery to replace fire loss. $200,000.

Ind., Ligonier—FACTORY—Ligonier Refrigerator Co. having plans prepared by A. M. Strauss, 415 Cal-Wayne Bldg., Ft. Wayne, 3 story and basement, 50 x 95 ft., rein.-con., brick and steel factory. $150,000.

Mich., Muskegon—NEWSPAPER PLANT—A. Kahn, Inc., archts. and engrs., 1000 Marquette Bldg., Detroit, soon take bids 2 story, 56 x 146 ft., brick, concrete and stone, 3rd and Clay Sts., here, for Booth Publishing Co., 2500 Buhl Bldg., Detroit. $150,000. Noted Dec. 2.

Ill., Chicago—PAPER PLANT and WAREHOUSE—R. Gair Co., 420 E. North Water St., having plans prepared by C. R. Engal, 420 E. North Water St., 2 story, 175 x 201 ft., brick, E. North Water St. $200,000.

Wis., Janesville — FACTORY — Hough Shade Corp., 1023 South Jackson St., having plans prepared by Flad & Moulton, 110 East Washington Ave., Madison, 2 story and basement, 80 x 80 ft., rein.-con., brick and steel, plain foundation. $40,000.

Wis., Kewaunee — FACTORY — Leyse Aluminum Co., A. Leyse, mgr., having plans prepared 2 story and basement, 56 x 97 ft. rein.-con., brick and steel factory unit, plain foundation. $40,000. Private plans.

Wis., Milwaukee—BAG FACTORY—Velguth & Popenthien, archts., 141 East Wisconsin Ave., soon lets contract 3 story, 100 x 175 ft., brick and steel plain foundation, 18th St. and St. Paul Ave., for Fredman Bag Co., 311 Bway.

Wis., Milwaukee — FACTORY — Allen-Bradley Co., H. L. Bradley, vice-pres., 286 Greenfield Ave., had plans prepared by F. Scott, 214 Mason St., 9 story, 50 x 150 ft. factory and 1 story, 10 x 42 ft. shipping room and 5 story top addition to main shop. $200,000.

Wis., Milwaukee — LAUNDRY — South Side West Wash Laundry, Inc., 641 15th Ave., having plans prepared by A. H. Kienapple, 455 Milwaukee St., 1 and 2 story, 120 x 217 ft., brick, steel and artificial stone, plain foundation, Muskego Ave. $100,000.

Wis., Sheboygan — FACTORY — E. A. Juul, archt., Security Natl. Bldg., preparing plans 4 story, 60 x 210 ft., rein.-con., brick and steel, plain foundation. $50,000. Owner's name withheld.

Wis., Wisconsin Rapids—FACTORY—Prentice-Weber Co., 1430 2nd St. N., plans 1 story and basement, 50 x 200 ft., rein.-con., brick and steel, plain foundation. $50,000. Engineer and architect not selected.

Ia., Iowa City—HEATING PLANT—State Bd. Educ., W. H. Gemmill, secy., Des Moines, had plans prepared by Proudfoot, Bird & Souers, 810 Hubbell Bldg., Des Moines, 1 story, rein.-con. and brick addition. $160,000.

Minn., Minneapolis — LAUNDRY—Waldron, Inc., M. B. Waldron, pres., 1028 La Salle Ave., having plans prepared by Long & Thorshov, 1028 Andrus Bldg., 2 story and basement, 91 x 115 ft., main building and 2 story and basement, 40 x 52 ft., cleaning and dyeing building, both rein.-con., brick and kosota stone, 24th St. and Lyndale Ave., S. $150,000.

Kan., Topeka — BAKERY — General Bakeries Co., 342 Madison Ave., New York City, N. Y., having plans prepared by Archer & Floyd, 916 Pioneer Trust Bldg., Kansas City, Mo., and soon takes bids 1 and 2 story and basement, rein.-con. and brick bakery, here.

Mo., Bridgeton—AIRPLANE FACTORY—Robertson Aircraft Corp., St. Louis Flying Field, making preliminary plans rein.-con. and brick factory.

Mo., California—POWER and PUMP HOUSE—City plans power and pump house. Engineer and architect selected soon.

Mo., Joplin—ORE MILL—H. T. Moss, Lathrop Bldg., Kansas City, plans ore mill.

Mo., Kansas City—DRUG MANUFACTURING—C. A. Dean, archt., 506 Reliance Bldg., rejected bids 1 and 2 story and basement, 35 x 136 ft. and 50 x 136 ft., rein.-con., brick and steel, drug manufacturing plant, here. Owner's name withheld.

Mo., St. Louis—CANDY FACTORY—Natl. Candy Co., 208 North Bway., takes bids about Aug. 25, 5 story and basement, approximately 225,000 sq.ft. floor space, rein.-con. and brick factory, incl. refrigeration plant, Gravois and Bingham Sts. on

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Missouri Pacific R.R. $1,000,000. Klipstein & Rathman, 316 North 8th St., archts. Noted June 2.

Mo., St. Louis—CEMENT PLANT—Missouri Portland Cement Co., 1010 Pine St., takes bids about Sept. 1, 1 and 2 story quick hardening building; 40 x 409 ft. kiln; 80 x 160 ft. each raw materials and clinker buildings; 50 x 80 ft. coal building; and 40 x 40 ft. transformer house and substation; also three batteries of silos and stack caisson with 220 ft. stack, 22 ft. diam. at base, all rein.-con., steel and corrugated asbestos siding and roofs, etc. Approximately $2,000,000. Grading work awarded to Fruin-Colnon Contg. Co., Merchants Laclede Bldg.

Ark., El Dorado—GARAGE, etc.—Griffin Brothers, soon takes bids 1 story and basement, 80 x 400 ft., rein.-con. and brick, concrete foundation, here. $140,000. Former bids rejected. C. L. Thompson, Home Insurance Bldg., Little Rock, archt.

Texas—COLD STORAGE PLANT—C. W. Napier, c/o Travis Bldg., San Antonio, having plans prepared cold storage plant at Donna, and one at San Benito, both 1 story, brick, iron and timber. $40,000 each. Private plans.

Tex., Amarillo — BRICK and TILE PLANT—Pan-Tex Clay Products Co., Casper, Wyo., having plans prepared brick and tile plant, here. $75,000. Private plans.

Tex., Amarillo—GASOLINE PLANT—Phillips Petroleum Co., having plans prepared for Sanford Plant, 40 million cu.ft. gas per day capacity, south of Canadian River. $250,000 incl. machinery. Private plans.

Tex., Amarillo — FACTORY — Amarillo Clay Products Co., c/o H. Knepper, pres., soon takes bids factory. $150,000.

Tex., Amarillo — REFINERY — Texarillo Refining Co., Amarillo, making plans oil refinery plant, etc. near here. $200,000. Private plans.

Tex., Belton—COTTON GIN PLANT—Texas Farm Bureau Cotton Assn., c/o C. Duke, Belton, made plans modern cotton gin plant, 75 bale daily capacity, brick and corrugated iron. $40,000. Private plans.

Tex., Colorado—COTTON COMPRESS—J. Guiter, having plans prepared 60,000 bale cotton compress. $125,000. Work may be done by day labor. Private plans. Noted May 12.

Tex., Dallas—INDUSTRIAL—Presto-Lite Co., 30 East 42nd St., New York City, N. Y., purchased site and plans two 2 and 3 story industrial buildings. $200,000. Engineer and architect not selected.

Tex., Fort Davis—POWER PLANT—Central Power & Light Co., c/o Frost Bldg., San Antonio, plans power plant, here. $80,000 incl. equipment. Private plans.

Tex., Galveston — WIRE and NAIL PLANT—C. S. Porter, 1115 35th St., having preliminary plans prepared wire and nail plant. $45,000 or more. Private plans.

Tex., Mission—LAUNDRY—G. W. Caldwell, Chickasha, Okla., purchased site and plans 2 story, brick and concrete, here. $50,000. Engineer and architect selected soon.

Tex., Nacogdoches—BRICK PLANT—A. W. O'Hara and F. R. Coveret, purchased site and making preliminary plans 100,000 per day capacity brick plant. $80,000. Private plans.

Tex., Panhandle—GASOLINE PLANT—Skelly Oil Co., Skelly Bldg., Tulsa, Okla. soon takes bids plant on 12,500 acre site, near here. $150,000. Private plans.

Tex., Petersburg—ELECTRIC LIGHT & POWER PLANT—B. C. Dunlap, Throckmorton, having plans, etc. prepared electric light and power plant, here. $60,000. Private plans.

Tex., San Antonio—CREAMERY—R. W. Alford, c/o Thorain Apts., having plans prepared by Phelps & DeWees, 718 Gunter Bldg., 2 story, 78 x 90 ft., rein.-con. brick and tile, plain foundation, 1,000 Blk. S. Presa. $60,000. Noted July 14.

Tex., San Antonio—REFINERY PLANT—Humble Oil & Fuel Co., and Humble Pipe Line Co., Houston, having plans prepared refinery plant on Frio City Rd. $300,000; also oil pipe line to plant to radiate from company's line running from Reagan fields to Port Ingleside, $250,000. Private plans.

Tex., Shamrock—POWER PLANT—Central Power & Light Co., c/o Frost Bldg., San Antonio, had plans prepared power plant, 800 hp. capacity, here. $40,000. Private plans.

Colo., Pueblo—PIPE FOUNDRY—Colorado Fuel & Iron Co., E. H. Weitzel, genl. mgr. plans pipe foundry, at Minnequa plant. $1,000,000 F. L. Lindemuth, ch. engr.

Wash., Kelso—PAPER PLANT—Kelso Paper Co. plans pulp plant. Address P. J. Gallagher, Bedell Bldg., Portland, Ore.

Wash., Port Townsend—KRAFT PAPER MILL—National Paper Products Co., 1789 Montgomery St., San Francisco, Calif., having plans prepared by V. D. Simons, engr., 431 North Michigan Ave., Chicago, Ill., 75 ton, 180 x 850 ft. kraft paper mill, incl. boiler and chemical plants, screening and heater, machine and warehouse buildings, here. $2,500,000 to $3,000,000.

Calif., Alhambra — FOUNDRY — Kay-Brunner Steel Casting Co., Glendale, purchased site and plane foundry, here.

Calif., Los Angeles—FACTORY—Firestone Rubber Co., South Main St., Akron, O., plans factory on 40 acre site here. $1,000,000. Engineer and architect not selected.

Calif., Los Angeles—PLANT—California Corrugated Culvert Co., 5th and Parker Sts., Berkeley, purchased site and plans 70 x 200 ft. steel plant, and 40 x 65 ft. office building, etc., Laguna-Maywood Industrial tract, here. $250,000.

Calif., Palermo—PACKING PLANT—Palermo Grove Co., plans 1 story, 80 x 100 ft. addition.

Calif., San Francisco—MARBLE PLANT—Vermont Marble Co. 244 Brannan St., E. C. Porter, mgr., plans marble plant, 3rd St. To exceed $40,000.

B. C., Nanaimo—SAW MILL—Nanaimo Lumber Co. Ltd., soon takes bids lumber mill, 100,000 ft. capacity daily. $75,000. Noted June 2.

Ont., Hamilton— FOUNDRY — Canadian Westinghouse Co., Sanford Ave., having plans prepared by B. H. Prack, 42 James St., N., 1 story 60 x 200 ft., brass foundry at Aberdeen Ave. $50,000.

Bids Desired

Mass., Boston — MANUFACTURING — Aug. 15, by Meisel Press Mfg. Co., Dorchester Ave., 1 and 2 story, 100 x 225 ft., brick, plain foundation, Dorchester and Crescent Aves. To exceed $40,000. Former bids rejected. Noted July 21.

Mass., Somerville (br. Boston)—BOILER HOUSE and HEATING PLANT—Aug. 15, by F. I. Cooper Corp., archt., 172 Tremont St., boiler house and heating plant in Highland Ave. School, for City. To exceed $40,000.

R. I., Providence—PLANT—See "Contracts Awarded."

N. Y., Raybrook—POWER HOUSE—Sept. 1, by Supt. Standards and Purchase, Div. Standards and Purchase, Executive Dept., Albany, power house at New York State Hospital for Treatment of Incipient Pulmonary Tuberculosis, here. S. W. Jones, Capitol, Albany, state archt.; adv. E. N.-R. Aug. 11. Noted May 12.

Pa., Phila. — FACTORY and WAREHOUSE—Aug. 12, by J. G. Lorenz Corp., 1011 Chestnut St., 1 and 2 story, 50 x 268 ft., 40 x 97 ft., 33 x 97 ft. and 33 x 32 ft., rein.-con. and brick, plain foundation, 33rd and Reed Sts. $100,000. Private plans.

Md., Vienna—POWER PLANT—Aug. 15 by Day & Zimmerman, constr. engrs., 1600 Walnut St., Philadelphia, Pa., 62 x 132 ft., brick and steel, concrete pile foundation, here, for Delmarva Power Electric Co., Vienna.

Tex., Belton—COTTON GIN PLANT—Bell Co. Farm Bureau Cotton Assn., c/o M. H. Casey, taking bids 5 stand, 80 saw capacity, crude oil or electrically operated cotton gin. Private plans.

Calif., Oakland—DISTRIBUTION PLANT—Mutual Creamery Co., 425 East 14th St., taking bids 2 story, brick, distribution plant incl. refrigeration plant, conveyor system, etc., East 14th St. $350,000. Reed & Corlett, Bank of Savings Bldg., archts.

Calif., Oakland—PAINT FACTORY—See "Contracts Awarded."

Contracts Awarded

N. H., Hanover—GARAGE, REPAIR SHOP and BOWLING ALLEYS—F. B. Tenney, 1 story and basement, rein.-con., brick and steel, plain foundation, to A. E. Rich, Hanover. Archts. est. To exceed $50,000.

Vt., St. Johnsbury—FACTORY—Martin-Gaulin Mfg. Co., 11 Elkins St., South Boston, Mass., 1 and 2 story, factory and boiler house, Portland St., to J. M. Swan & Son, Inc., 144 Portland St. Archts est. $440,000. Noted Mar. 24.

Buildings—Industrial (Continued)

Mass., Boston—BOILER HOUSE etc.—City, Hospital Dept., altering and constructing 1 story brick and steel, addition, Albany St., to Rideout, Chandler & Joyce, 178 High St., $78,954. Noted June 30.

Mass., East Springfield—SILK MILL—Harris Silk Hosiery Co., E. W. Harris, pres., 2 story, brick, plain foundation, to Adams & Ruxton Constr. Co., 1387 Main St., Springfield. Archts. est. $40,000 or more.

Mass., Lynn—BOILER HOUSE, etc.—Agoos Leather Co., 146 Pleasant St., 1 story, rein.-con., and brick, plain foundation, 146 Boston St., to W. T. Dinneen Constr. Co., 23 Central Ave., Archts. est. $40,000.

Mass., Taunton—FACTORY—Chandler Oil Cloth Co., 102 Old Colony Ave., West Taunton, 1 story, 100 x 165 ft., brick and terra cotta, addition, plain foundation, to M. C. Tuttle Co., Park Sq. Bldg., Boston.

Mass., Waltham (Ind. br. Boston)—GARAGE, SHOW ROOM and REPAIR SHOP—J. W. Gardner, Brookfield Rd. Waverley, 1 story, rein.-con. steel, plain foundation, to P. B. Meisner, 323 Auburndale Ave., Auburndale. Archts est. $40,000. Noted July 21.

R. I., East Providence (br. Providence)—PLANT—Rumford Chemical Co., 1 unit 1 story, 73 x 260 ft., brick, and connected with 5 story 100 x 220 ft. to Aberthaw Co., 80 Federal St., Boston, Mass.

R. I., Providence — PLANT — Flynn's Towel Supply Co., 9 Doyle Ave., will build 1 and 2 story, brick laundry and boiler house, plain foundation, Doyle Ave. and Scott St., by day labor. $150,000 or more. W. G. Richards, 11 Westminster St., archt.

N. Y., Port Ivory (sta. Staten Island)—Procter & Gamble Co., 4 story, 32 x 96 ft., brick and steel, to H. K. Ferguson Co., 4900 Euclid Ave., Cleveland, O. Archts. est. $50,000.

N. Y., Queens — BAKERY — Atlantic Warehouses, Inc., (Great A. & P. Tea Co.) 5 story, 77 x 100 ft. rein.-con., Decatur St. and Myrtle Ave., to Turner Construction Co., 420 Lexington Ave., New York City.

Pa., Johnstown—FACTORY—Penn Machine Co., Station St., general contract 2 story, 40 x 120 ft., brick, steel and concrete, Station St., to Wilson Constr. Co., Johnstown Trust Bldg. Archts. est. $40,000.

O., Cleveland — WAREHOUSE — Great Western Oil Co., 2846 East 37th St., B. W. Brown, pres., general contract 3 story, 60 x 180 ft., brick and steel warehouse here, to H. K. Ferguson Co., 4900 Euclid Ave., Archts. est $50,000. Noted Aug. 4

Ill., Chicago — FACTORY — Fleichmann Co., 2655 West 19th St., masonry and carpentry contract 3 story, 66 x 125 ft., brick, 4801-25 South Oakley Ave., to H. W. Greene Constr. Co., 9 South Clinton Ave. Archts. est. $200,000.

Ill., Chicago—FACTORY—A. E. Strobel, archt., 53 West Jackson Blvd., 1 story, 150 x 150 ft., brick, 69th St. and South Chicago Ave., to Chicago Industrial Constr. Co., 53 West Jackson Blvd., for Edward Holt Co., 6836 South Chicago Ave. Archts. est. $50,000.

Wis., Milwaukee—GARAGE—North Side Building Co., Milwaukee, 3 story, 50 x 150 ft., rein.-con. brick, terra cotta and artificial stone, plain foundation, 3rd and Chambers Sts., to E. C. Knuth, Fond du Lac Ave. $50,000.

Ia., Cedar Rapids—SUGAR FACTORY—Penick & Ford, 2 story and basement, 100 x 163 ft. rein.-con., brick and stone addition, plain foundation, to Lightner Bros., 94 2nd Ave., $68,000.

Kan., Newton—PUBLISHING PLANT—Kansas Republican c/o J. C. Mack, for 2 story and basement, 66 x 100 ft., rein.-con., and brick, to M. R. Stauffer, Newton. Noted May 5.

Mo., Kansas City—PRINTING PLANT—Smith-Grieves Printing Co., 716 Baltimore St., 2 story and basement, 60 x 120 ft., rein.-con. and brick, 17th and Washington Sts., to Londsdale Bros., Bryant Bldg. Archts. est. $60,000.

Mo., Kansas City—AWNING FACTORY—Pioneer Trust Co., Pioneer Trust Bldg., 3 story and part basement, rein.-con. brick and terra cotta, 23rd and McGee Sts., to A. J. Rector, Pioneer Trust Bldg. Broadway Baker & Lockwood Mfg. Co., lessee.

Mo., St. Louis—CAR ICING PLANT—Polar Wave Ice & Fuel Co., 3638 Olive St., 1 story, 50 x 600 ft., rein.-con. and brick plant, Rutger St. at wharf, to Fruin-Conlon Contg. Co., Merchants-Laclede Natl. Bank Bldg. Archts. est. $75,000.

Ark., Clarksville—POWER PLANT—Bd. Comrs. Electric Light Improvement Dist. 2, rein.-con. brick power plant, incl. 4 cycle Diesel oil engine, Westinghouse generator and switchboard and centrifugal pumps, etc. to Worthington Pump & Machinery Corp., Laclede Gas Bldg., St. Louis, Mo. Approximately $86,000.

Okla., Ponca City—POWER PLANT—C. E. Norton, city clk., new power house building, hot well, salt house room, cooling tower and fuel oil reservoir, to Interstate Constr. Co., 5703 Rockhill St., Kansas City, Mo., $123,960. Archts. est. $150,000. Noted July 7.

Calif., Alhambra—FOUNDRY and MACHINE SHOP—Reliance Mfg. Co., 1020 South Bway., Pasadena, 1 story, 115 x 180 ft. and 1 story, 60 x 200 ft., brick and steel, Meridian Ave. here to Union Iron Works, 5125 Santa Fe Ave., Los Angeles, $150,000. Noted Aug. 4.

Calif., Oakland—PAINT FACTORY—J. C. James, (owner and contractor) 2300 87th Ave., will build 1 story, brick paint factory, 88th Ave. and B. St. $40,000. Woolworth Paint Co., c/o owner, lessee.

Calif., Santa Ana—BAKING PLANT—Kilpatrick Baking Co., 1 and 2 story, 90 x 113 ft., brick and timber, North Main St. and Roe Dr. to Wm. Rohrbacker, 704 South Rose St. $50,000.

Buildings—Educational, Religious

Proposed Work

Vt., Morrisville—SCHOOL—Town, School Bd. having plans prepared by W. H. McLean, 88 Tremont St., Boston, Mass., 2 story and basement, 66 x 148 ft., rein.-con., brick and steel, plain foundation, $160,000.

R. I., Kingston—LIBRARY and AUDITORIUM—Rhode Island State College, A. Edwards, in charge, takes bids about Aug. 15, 1 and 2 story and basement, brick and stone, plain foundation. $150,000. Bigelow, Kent & Willard Co., Park Sq. Bldg., Boston, Mass., archts. Noted Feb. 24.

Conn., Meriden—NURSES HOME—C. P. Bradley, plans nurses home incl. laboratory, demonstration, reception and class room, $150,000. L. Hamilton, 22 Church St., archt.

Conn., Meriden—SCHOOL—St. Peter and St. Paul Parish, S. I. Burdikoff, 37 Bunker Ave., pastor, plans school and community center. $150,000. Engineer and architect not selected.

Conn., Storrs — SCIENCE — Connecticut Agricultural College having plans prepared by D. K. Perry, New Britain, 3 story brick, stone and terra cotta.

N. Y., Rochester—NURSES DORMITORY—Highland Hospital, C. W. Smith, chn. Bd. Directors, Belleville Dr., having plans prepared by S. Firestone, engr. and archt., 59 South Ave., nurses dormitory, Belleville Dr. $250,000.

Md., Baltimore — POLYTECHNIC SCHOOL—Mayor and City Council, City Hall, having plans prepared by C. M. Anderson, 9 East Pleasant St., 4 story, brick and stone school, here. $1,000,000. Engineer and architect not selected.

N. J., Garfield (br. Passaic)—HIGH SCHOOL—Bd. of Educ., Palisade Ave., having plans prepared by F. Perrone, Medland St., 3 story brick and steel, plain foundation. $150,000.

La., Shreveport—HIGH SCHOOL—Caddo Parish School Bd., takes bids in September, 2 story and basement, rein.-con., brick, stone and steel, junior high school near State Fair Grounds. $350,000. E. F. Neild, City Bank Bldg., archt. Noted Aug. 4.

O., Akron—CHURCH—Trinity Reformed Church, having plans prepared by J. C. Fullerton & Son, Uniontown, Pa., 2 story and basement, brick and stone church here. $175,000.

Ind., Indianapolis — COLLEGE — Butler College, J. W. Atherton, secy., 1104 Fletcher Trust Bldg., having plans prepared by F. S. Cannon, 21 Virginia Ave., 3 story, 208 x 340 ft., rein.-con., brick and steel, 16,000 seating capacity, incl. gymnasium and swimming pool, etc., at Fairview, here. $500.000.

Ind., Tell City—SCHOOL—School Comrs., M. P. Carr, pres., having plans prepared by C. L. Troutman, Amer. Trust Bldg., Evansville, 2 story and basement, 75 x 170 ft., brick, steel and stone incl. gymnasium and science laboratory, etc. $170,000.

Neb., Lincoln—DENTAL—University of Nebraska having plans prepared by Davis & Wilson, 525 South 13th St., 3 story and basement, 60 x 250 ft., brick and stone, plain foundation, here. $300,000.

Mo., Kansas City—NURSES' HOME—City had plans prepared and soon takes bids 5 story, rein.-con. and brick, 24th and Cherry Sts. $250,000. F. C. Gunn, 1108 Continental Bldg., archt. Noted Apr. 28.

Tex., Houston—CHURCH—Antioch Congregation c/o R. T. Andrews, 408 Milam, having plans prepared by C. C. Bugler, 207 Constr.-Ind. Bldg., Dallas, and takes bids about Aug. 20, 4 story, 80 x 140 ft., brick, $150,000.

Tex., Lubbock—ENGINEERING—Texas Technological College, c/o E. W. Provence, takes bids about Sept. 10, rein.-con., brick, steel and stone, $240,000. W. C. Hedrick, 1005 1st Natl. Bank Bldg., Ft. Worth, archt. Noted Aug. 4.

Ore., Corvallis — DORMITORY—Bennes & Herzog, archts., Chof. Com. Bldg., Portland, take bids about Jan. 1 (1st unit), rein.-con. and terra cotta dormitory on campus Agricultural College, here, for State. $250,000.

Ore., Portland—SCHOOL—School Dist. 1 takes bids about Aug 1. Polytechnic School for Girls, 3 story and basement, 175 x 280 ft. and 1 story, 50 x 73 ft. gymnasium, both rein.-con. and brick, plain foundation, Everett and East 26th Sts. $350,000. J. H. Keller, Worcester Bldg., engr. and archt. Noted July 14.

Calif., Beverly Hills—SCHOOL—Church of Good Shepherd, Santa Monica Blvd., having preliminary plans prepared by M. L. Barker, 1154 North Western Ave., Los Angeles, 2 story parochial school, Santa Monica Blvd. $150,000.

Calif., Los Angeles — TEMPLE and SCHOOL—Beth Israel Congregation having plans prepared by A. A. Weitzman, Hibernian Bldg., 100 x 300 ft. with 100 ft. dome, probably rein.-con., Centennial St. $300,000.

Calif., San Bernardino—HIGH SCHOOL—Bd. Educ. having plans prepared by E. K. Martin, Flemming Bldg., rein.-con., Highland Ave. west of E St. $150,000.

Calif., Upland—HIGH SCHOOL—Upland Junior High School Dist. having preliminary plans prepared by G. S. Wilson, Riverside, Junior High School, 2 story, rein.-con. $150,000.

Calif., Ventura—CHURCH—Union Presbyterian Church, having plans prepared by Austin & Ashley, Chamber of Commerce Bldg., Los Angeles, rein.-con. church, Hemlock and Santa Clara Sts., here. $150,000.

Bids Desired

N. H., Keene—SCHOOL—City, School Building Com. taking bids 2 story and basement, 55 x 130 ft., brick and stone, plain foundation, Park Ave. C. P. Hoyt, 8 Beacon St., Boston, Mass., archt.

Mass., Boston—COLLEGE—Aug. 16, by T. H. James Co., archt., 3 Park St., 5 story and basement, brick, plain foundation, Stuart, Warren and Carver Sts., for Burdett Business College. To exceed $150,000.

Mass., Southbridge—SCHOOL—Aug. 15 (extended date) by Town, W. G. Lamoureau, chn. com., 2 story and basement, 60 x 100 ft., brick and stone trade school, here. $150,000. M. A. Dyer Co., 1 Beacon St., Boston, archts.

R. I., North Providence (sta. Providence)—SCHOOL—Town, School Comn., taking bids two 2 story and 1 story, brick and stone, additions plain foundation, Fruit Hill Ave. and Allendale Dist. $150,000. W. R. Walker & Son, 49 Weybosset St., Providence, archts. Noted June 9.

N. Y., Rochester—SCHOOL—Aug. 25, by Bd. Educ., 13 Fitzhugh St. S., addition to Townson School 39, Midland Ave., between Pomeroy and Chapin Sts. $250,000.

N. Y. Syosset—CONVENT—Aug. 16, by E. G. Perrot, archt., 130 West 42nd St., New York City, 5 story, brick, steel and stone, here, for Sisters of Mercy, 273 Willoughby Ave., Brooklyn. $700,000.
Boilers, pumps, stone, brick, roofing, etc.

Pa., Phila.—CONVENT—Aug. 16, by P. F. Getz, archt., Victory Bldg., 3 story and basement, 41 x 113 ft., steel and stone, plain foundation, Medary St., for St. Benedict Roman Catholic Church, Medary St.

D. C., Wash.—HIGH SCHOOL—Aug. 31, at District Bldg., extensible junior high

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Buildings—Educational, Religious (Cont.)

school building to replace Garnet-Ratterson School. adv. E. N.-R. Aug. 11. Noted Feb. 10.

Va., Charlottesville—MEDICAL SCHOOL and HOSPITAL—Aug. 16, by Coolidge, Shepley, Bulfinch & Abbott, archts., Ames Bldg., Boston, Mass., 2 story and basement, brick medical school and alterations to hospital, here, for University of Virginia. $150,000 or more.

Tex., San Angelo—COLLEGE—Sept. 6, by Bd. Educ., 2 story, rein.-con .and brick, plain foundation, $250,000. Phelps & De Wees, 718 Gunter Bldg., San Antonio, archts. Noted Aug. 4.

Calif., Gridley—HIGH SCHOOL—Sept. 1 by Trustees Union High School Dist., 2 story, brick high school for Gridley Union High School Dist. $150,000. Davis-Pearce Co., Grant and Weber Sts., Stockton, archt. Noted June 9.

Contracts Awarded

Mass., Arlington (br. Boston)—HIGH SCHOOL—Town, J. C. Bracket, general contract 2 story, 60 x 185 ft. and 1 story, 60 x 138 ft., brick and stone, plain foundations, Tufts St. to C. S. Henry & Co. Inc., 82 Devonshire St., Boston, $198,800; heating and ventilating to Underhill Heating & Ventilating Co., 171 Harrison Ave., Boston, $33,987. Noted July 21.

Mass., Belmont—CHURCH—Our Lady of Mercy, 399 Belmont St., 1 story and basement, brick and stone, plain foundation, Belmont St. and Oakley Rd. to Charles Logue Building Co., 18 Tremont St., Boston. Archts. est. $150,000. Noted June 30.

Mass., Bolton—CHURCH — Unitarian Church, J. W. Pardee, pastor, rebuilding 1 story and basement, brick, stone and steel, plain foundation, Main St., to C. H. Matthews, 5 High St., Hudson, Archts. est. $150,000. Noted Jan. 27.

Mass., Newton (br. Boston)—SCHOOL—City, E. O. Childs, mayor, City Hall, 2 story and basement, irregular shaped brick and stone, plain foundation, Ward St. and Waverly Ave. to Phandor Co., 18 Tremont St., Boston, $180,873. Noted June 2.

Mass., Worcester — CHURCH — Notre Dame Ascension Parish, T. O. Leary, pastor, 1 story, brick, stone and granite, Salem Ave., to J. J. Roberts, 4 Wall St. Archts. est. $250,000. Noted July 14.

R. I., Providence—SCHOOL—City, Public Building Dept., City Hall, 2 story and basement, brick, steel and concrete, Bridham St., to E. Turgeon, 36 Exchange St., $114,-556. Noted July 28.

R. I., Providence—SCHOOL—St. Patricks Roman Catholic Church, M. F. Reddy, pastor, 2 story and basement, 135 x 145 ft., brick and stone, plain foundation, Smith and Coverly Sts. to J. Donatelli, 1352 Smith St. Archts. est. $175,000. Noted July 21.

Conn., Waterbury—SCHOOL—St. Margarets School, C. B. Brewster, pastor, 4 story, 80 x 188 ft., school, to Tracy Bros. Co., 52 Benedict St.

N. J., Fords—CHURCH and SCHOOL—Roman Catholic Church of our Lady of Peace, 3 story and basement, 60 x 100 ft. brick and steel, plain foundation to J. Karamonsky, Easton Ave., Carteret. $150,-000. Noted July 7.

N. J., Ogdensburg—SCHOOL—Bd. of Educ., general contract 2 story and basement, 93 x 131 ft., brick and steel, plain foundation to Gilmore Bros., 678 Market St., Paterson. $99,358. Engrs. est. $150,-000. Noted July 14.

N. J., Paterson—HOME—Old Ladies Home, 265 Totowa Ave., 2 story, brick and steel, plain foundation, 261-275 Totawa Ave. to J. W. Ferguson, 152 Market St. $150,000.

Pa., Johnstown—SCHOOL—School Dist., J. D. Rutledge, pres., general contract 3 story and basement, 120 x 200 ft., brick and steel addition, Woodvalle St., to Wilson Constr. Co., Inc., Johnstown $87,945. Archts. est. $175,000. Noted June 30.

Pa., New Castle — HIGH SCHOOLS — School Dist., general contract Junior High School, 2 and 3 story and basement, irregular shaped, brick, steel and concrete, here, to J. Clyde Gilfillan, New Castle, $418,333; heating, to W. N. Clark & Sons, New Castle, $80,000; and plumbing, to R. T. Withers & Sons, New Castle, $29,409; and general contract Senior High School, 3 story and basement addition, to A. Wishart & Son, Sharon. Archts. est. $250,000. Noted July 7.

Pa., Phila.—LABORATORIES—Stewardson & Page, archts., 315 South 15th St., 3

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story, basement and sub-basement, 25 x 144 ft. and 53 x 244 ft., rein.-con., brick and steel, plain foundations, 34th and Spruce Sts., to J. Myers Sons Co., 5100 Lancaster Ave, for University of Pennsylvania, 34th and Spruce Sts Noted July 14.

Mich., Ann Arbor—ATHLETIC—University of Michigan, 1 story, 110 x 415 ft., rein.-con., brick and steel, plain foundation, Ferry Field, to Palmer Constr. Co., Grand Rapids Savings Bank, Grand Rapids. Archts. est. $675,000. Noted July 28.

Kan., Atchison — MONASTERY — St. Benedict Abbey, c/o Father Callistus, will build 2, 3, and 4 story and basement, 300x 528 ft. rein.-con., brick and stone here. Work will be done by separate contracts, under supervision of E. Breilmaier & Sons Co., archts., 425 East Water St., Milwaukee, Wis. $1,000,000. Noted Apr. 28.

Mo., University (St. Louis P. O.) — CHURCH and SUNDAY SCHOOL — La Beaume & Klein, archts., Compton Bldg., St. Louis, 1 and 2 story and basement, rein.-con., brick and stone, Delmar Blvd. and Overhill Dr., to Dickie Constr. Co., Syndicate Trust Bldg., St. Louis, for First Presbyterian Congregation, c/o T. B. Teasdale, chn., 5832 Cates Ave. Archts. est. $200,000. Noted May 19.

Okla., Goodwell—LABORATORY—State Board of Affairs, Capitol Bldg., Oklahoma City, general contract 3 story and basement, 68 x 176 ft., rein.-con. and brick, plain foundation, on campus, to Bailey & Burns, Norman, $109,500. Archts. est. $150,000.

Okla., Tishomingo—ADMINISTRATION—Board of Affairs, Capitol Bldg., Oklahoma City, 2 story and basement, 90 x 100 ft., rein.-con., and brick, plain foundation, on campus, to Bailey & Burns, Norman, for Southeast Agricultural College. $156,-000. Archts. est. $170,000.

Ont., Kapluskasing—SCHOOL—S. S. 1, O'Brien Twp., general contract 2 story and basement, rein.-con., brick, steel and cut stone, plain foundation, here, to A. R. Holmes, Ltd., 6 Hayden St., Toronto; steam heating with ventilation to F. R. Gibson, Haileybury. Est. cost $150,000.

Federal Government Work

Proposed Work

Me., Bar Harbor—Altering—Spec. 5406—Bureau Yards & Docks, Navy Dept., Wash., D. C. plans altering buildings and appurtenances and constructing engine house at Naval Radio Station, here.

Mis Gulfport—Roads—U. S. Veterans Bureau, did not open bids on August 2. Grading, draining, etc. at U. S. Veterans Hospital 74, here. Work will be readvertised later. Noted July 14.

Missouri—Pile Dikes—U. S. Engineer Office, St. Louis rejected bids July 15, constructing pile dikes in Mississippi River at Hanging Dog Island, Ill., Crains Island, and Sister Island, Mo. Noted June 23.

Bids Desired

N. Y., Buffalo—Superstructure—Sept. 6, by U. S. Engineer Office, constructing concrete superstructure on Bird Island Pier, adv. E. N.-R. Aug. 11.

N. Y., St. George—Cylinders—Aug. 15, by Supt. Lighthouses, 250 steel cylinders, 88 cu.ft. capacity for transportation of compressed acetylene gas.

Pa., Tarentum—Post Office—Aug. 30, by Treas. Dept., at office Supervising Archt., Wash. D. C. constructing U. S. Post Office, here.

Ga., Augusta—Distribution System—Aug. 23, by U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., constructing outside water sewer and steam distribution system at U. S. Veterans Hospital, 62, here.

Ala., Selma — Remodeling — Sept. 5, by Treas. Dept., at office Supervising Archt., Wash. D. C. remodeling U. S. Post Office, here.

Ill., Chicago—Remodeling—Aug. 22, by Treas. Dept., at office Supervising Archt., Wash., D. C. remodeling U. S. Post Office, here.

Ill., Great Lakes (mail Waukegan)—Heating Plant Equipment—Spec. 5405—Aug. 24, by Bureau Yards & Docks, Navy Dept., Wash. D. C. heating plant equipment for Naval Training Station, here. Noted Aug. 4.

Ark., Prescott—Entrance—Aug. 29, by Treas. Dept., at office Supervising Archt., Wash., D. C. constructing entrance steps, here.

Tex., Austin—Changes—Aug. 31, by Treas. Dept., at office Supervising Archt., Wash., D. C. attic changes, etc. at U. S. Post Office, here, adv. E. N.-R. Aug. 11.

New Mexico—Road—Aug. 16, by J. W. Johnson, dist. engr., Bureau Pub. Rds., Customhouse, Denver, Colo. grading and graveling 6.61 mi. Glenwood-Alma Sect., Datil Reserve-Dry Creek Natl. Forest Road Project, Catron Co.

Utah—Road—Aug. 31, by B. J. Finch, dist. engr., Bureau Pub. Rds., 403 Kiesel Bldg., Odgen, grading and graveling 5.02 mi. Sects. 1 and 2, East Rim Road Project, within Zion Natl. Park, Washington Co.

Calif., Livermore — Walks — Aug. 30, by U. S. Veterans Bureau, Wash., D. C., constructing walks, curbing and guttering at U. S. Veterans Hospital, 102, here.

Calif., San Diego—Boiler—Spec. 5345—Aug. 31, by Bureau Yards & Docks, Navy Dept., Wash. D. C. installing boiler at Navy Yard, here.

Bids Received

D. C., Wash—Power Plant Equipment—Spec. 5334—Bureau Yards & Docks, Navy Dept., Wash. D. C. July 27, power plant equipment for Naval Hospitals, here, from M. H. Pagenhardt & Co., 2130 Locust St., Phila., Pa. $17,964. Noted July 14.

N. C., Wilson—Post Office—Treas. Dept., at office Supervising Archt., Wash., D. C. July 29, constructing U. S. Post Office, here, from C. Weitz Sons, 713 Mulberry St., Des Moines, Ia. $160,306. Noted June 23.

O., Dayton—Distribution System—Constructing Quartermaster, Wright Field, installing underground electric distribution system, Wright Field, here, from R. A. Phelps, Dayton, $35,860. Noted June 30.

Contracts Awarded

Maine—Dredging—U. S. Engineer Office, Custom House, Boston, Mass. dredging in Saco River here to J. S. Packard Dredging Co., 1004 Turks Head Bldg., Providence, R. I., $38,830 and constructing breakwater and repairing jetty to P. H. Doyen Co., South Portland, $71,400. Noted May 28.

N. C., Charlotte—Extensions, etc.—Treas. Dept., at office Supervising Archt., Wash., D. C. extending mail vestibule and driveway at U. S. Post Office and Court House, here, to H. L. Turner, Wash., D. C., $7,963.

S. C., Charleston—U. S. Engineer Office, extending North Customhouse pier to Hampton Constr. Co., Charleston, $12,943. Noted June 16.

Ky., Louisville—Boat Hulls—U. S. Engineer Office, 6 maneuver boat hulls and derricks Lots A and C to P. Jensen & Co., New Albany, Ind., $34,200 and Lot B to C. Hegeald Co., New Albany, Ind., $34,490. Noted June 16.

Ill., Great Lakes (br. Waukegan)—Improvements—Spec. 5404—Bureau Yard. & Docks, Navy Dept., Wash., D. C. prison improvements, at Naval Training Station, here to Tobias Jones 623 North Ave., Waukegan, $12,963.

Minn., St. Paul—Remodeling—Treas. Dept., at office Supervising Archt., Wash., D. C. remodeling U. S. Post Office, here, to G. J. Grant Contr. Co., 904 New York Bldg., $12,280. Noted July 7.

Missouri and Illinois—Pile Dikes—U. S. Engineer Office, St. Louis, concrete pile dikes in Mississippi River at Pulltight, Calleo Island and James Landing, Ill. to Frazier-Davis Constr. Co., Arcade Bldg., St. Louis, $76,445; at Schenimann, Mo. to W. P. McGeorge, Pine Bluff, Ark., $340,480; and in Greenfield Bend to Woods Bros. Constr. Co., 132 South 13th St., Lincoln, Neb., $132,500. Grand total $549,425. Noted June 23.

Ark., Dewitt—Levees—U. S. Engineers Office, Vicksburg, Miss., 725,000 cu.yd. levees, Dewitt, Desha Co., to Owen & Gaddis, 819 Gallatin St., Jackson, Miss. $232,000.

Tex., Houston—Remodeling—Treas. Dept. at office Supervising Archt., Wash., D. C., remodeling U. S. Post Office, here to M. T. Green, 609 North Akard St., Dallas, $9,554. Noted June 30.

Federal Government Work (Continued)

FEDERAL POWER COMMISSION

Application for License and Permits

Applications

811—Great Northern Co., 542 2nd Ave., St. Paul, Minn., wants license temporary constructed transmission line within Wenatchee Natl. Forest, Chelan Co.

812—Kansas Gold Co., 315 Railway Exchange Bldg., Seattle, Wash., wants license power project on Harris Creek, Alaska, within Tongass Natl. Forest.

813—Arizona Power Co., Inc., Prescott, Ariz., wants license transmission line partly in Prescott Natl. Forest and Fort Whipple Military reservation, in Yavapai Co.

814—Telluride Power Co., 1309 Walker Bank Bldg., Salt Lake City, Utah, wants license partly constructed power project within Fillmore Natl. Forest and partly on public lands on Beaver River, in Beaver Co.

815—Tuckee River Power Co., Reno, Nev., wants license transmission line partly within Tahoe Natl. Forest, Placer Co.

816—W. L. Huber, 1304 Crocker Natl. Natl. Bank Bldg., San Francisco, Calif., wants preliminary permit power project within Tahoe and El Dorado Natl. Forests, on North and Middle Forks, American River, in Placer and El Dorado counties.

817—West Virginia Power Co., Charleston, ton, W. Va., wants preliminary permit 2 power projects in connection with 2 proposed dams to replace existing Governmentment Dams 2, 3, 4 and 5, on Kanawha River, Kanawha Co.

818—American River Water & Power Co., Auburn, Calif., wants preliminary permit power project, partly within Tahoe Natl. Forest, on North and Middle Forks, American River, in Placer Co.

819—Montana-Idaho Mines Corp., Winston, Mont., and Spokane, Wash., wants license power project partly within Helena Natl. Forest on North and South Forks of Beaver Creek, in Broadwater Co., Mont.

820—Eastern Oregon Development Co., Baker, Ore., wants license transmission line on public lands in Baker Co.

821—Libby, McNeil & Libby, Seattle, Wash., wants license power project in Tongass Natl. Forest, on Cascade and Rosa Creeks and Lower and Upper Lakes, on Gravina Island, Alaska, near Kenchikan.

822—Gold Basis Mining & Milling Co., Oakland, Calif., wants license power project in Tahoe Natl. Forest, on East Fork of North Fork of Yuba River, Sierra Co.

823—General Power & Light Co., 231 South LaSalle St., Chicago, Ill., wants license power project on Green River, in McLean Co., Kentucky, near Calhoun.

Unclassified

Proposed Work

Grain Elevator—Fitchburg, Mass.—J. Cushing Co. plans new grain elevator with equipment. $100,000. Engineer not selected.

Athletic Field—Meriden, Conn.—International Silver Co., Recreation Dept., State St. plans athletic field incl. baseball diamond, gridiron, tennis courts, cinder track and grandstand. To exceed $25,000. Private plans.

Asphalt Mixing Plant—Long Island City, N. Y.—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., rejected bids June 22, asphalt mixing plant with full equipment to Bureau Highways. Noted June 16.

Stadium—North Albany (mail Albany) **N. Y.**—Capital Dist. Baseball Assn., S. E. Aronowitz, secy., 100 State St., Albany, making plans steel and concrete stadium, Chadwick Park, here. $250,000. G. Thompson, 324 Montgomery St., Syracuse, engr. and archt.

Transmission Line — Texas — Central Power & Light Co., c/o Frost Bldg., San Antonio, making plans and soon take bids power transmission line from Kingsville to Falfurrias. $275,000. Private plans.

Gas Pipe Line—Amarillo, Tex.—Assoc. Producers Gasoline Co., 513 Rule Bldg., making plans and soon take bids improving system, incl. steel tanks and small pipe lines. $100,000. Private plans.

Land Development—Beaumont, Tex.—Gulf Building & Loan Co., c/o W. M. Clapp, pres., 2462 Calder St., having plans prepared 360 acre sub-division development, incl. natural gas distributing system $16,000, water system $35,000, sewers $25,000, paving $60,000 etc. Private plans.

Tank Farm—Pecos, Tex.—Mid-Kansas Oil & Gas Co. (subsidiary of Ohio Oil Co., Tulsa, Okla.), plans twenty-five 80,000 bbl. steel oil tanks on 770 acre farm in new Pecos field in Pecos Co., here. $750,000. Private plans.

Gas System—San Angelo, Tex.—Western Gas Serv. Co., c/o B. Carter, Ranger, making surveys gas system improvements, here. Private plans.

Land Development—San Antonio, Tex.—T. F. Ragsdale and associates, c/o C. Y. Bailey, Travis Bldg., purchased 56 acres land on Fredericksburg Rd., and plans paving $60,000, waterworks $20,000, and sewers $35,000. Private plans.

Oil Pipe Line—San Antonio, Tex.—See "Buildings—Industrial."

Transfer Shed—San Antonio, Tex.—Merchants Transfer Co., c/o F. Canaday, 215 Main Ave. soon take bids 100 x 260 ft. tile, rein.-con., sheet iron, etc. Nueva and Dolorosa Aves. $160,000. H. S. Green, Alamo, Natl. Bank Bldg., archt.

Grain Elevator—Kelso, Wash., Kelso Port Commission had plans prepared by J. S. Metcalf Co., Ltd., 111 West Jackson Blvd., and takes bids about Sept. 1, grain elevator. $416,000 bond voted. Noted Apr. 21.

Swimming Pool—Berkeley, Calif.—City, E. M. Hann, clk., plans 130 x 150 ft. swimming pool.

Lighting System—Culver City, Calif.—Plans ornamental lighting system on portions Wagner St., Barman Ave., etc. To exceed $25,000.

Lighting System—Los Angeles, Calif.—City, plans ornamental lighting system in portions of Genesee St., Ogden Dr., Orange Grove Ave., etc. To exceed $25,000.

Lighting System—Los Angeles, Calif.—See "Streets and Roads."

Parking Pier—Santa Monica, Calif.—Ocean Park Realty Corp., Ocean Park, had plans prepared by J. P. Verrine, Lincoln Bldg., Los Angeles, for pier, timber and creosoted piling, approximately 100,000 sq.ft. for auto packing, here. $150,000.

Bids Desired

Golf Course—Waterbury, Conn.—Waterbury Club, I. W. Day, 111 Main St., taking bids golf course and club house. To exceed $50,000. Parson & Waite, 1 Beacon St., Boston, archts. Noted Apr. 14.

Foundations—New York—See "Streets and Roads."

Subway—Brooklyn, N. Y.—Sept. 2, by Bd. Transportation, J. H. Delaney, chn. 49 Lafayette St., New York City constructing Sect. 1, Route 109, Rapid Transit R.R., extending along and under Jay St., from Nassau to Willoughby Sts., here.

Comfort Station—New York, N. Y.—Aug. 16, by Park Bd., W. Herrick, pres., Dept., Parks, Arsenal Bldg., Central Park, general construct comfort station in Washington Square Park.

Exit Facilities and Fire Stops—Rome, N. Y.—Aug. 24, by Comr. Mental Hygiene, Dept. Mental Hygiene, Capitol, Albany, exit facilities and fire stops at State School for Mental Defectives, here; adv. E. N.-R. Aug. 11.

Bath House and Pool—Wash., D. C.—Aug. 12, at Office Public Buildings & Parks, constructing bath house, beginners pool, and swmiming pool, McKinley High School Grounds, 1st and R Sts. N. E. Noted June 9.

Air Port—Paducah, Ky.—See "Contract Awarded."

Boiler Settings—St. Louis, Mo.—See "Waterworks."

Lighting System—Azusa, Calif.—Aug. 15, by H. R. Smith, city clk., ornamental lighting system in portions of Orange, Sunset Aves., etc. To exceed $25,000. C. L. Nichols, city engr.

Bids Received

Park Improvements—Ridgewood (br. Brooklyn), N. Y.—Park Bd. at office Dept. Park, Arsenal Bldg., Central Park, New York City, park improvements, at Anawanda Park, here, from M. J. Grant, 139 Potter Ave., Astoria, $19,465. Noted July 28.

Contracts Awarded

Coal Pocket—Fall River, Mass.—W. C. Arwater & Co., 2 Bedford St., 1 story, wood, plain foundation, to R. H. Beattie, 209 Bedford St. Engrs. est. $25,000.

Heating System—Worcester, Mass.—City, Supt. Public Bldgs. heating system in Downing St. school, to Central Heating Co., Worcester, $20,350.

Air Port—Paducah, Ky.—C. R. Iseman, (owner and contractor), will build air port, incl. grading, erecting hangers, gasoline filling and repair stations, etc., on Clarks-Ferry Rd., near here. Engrs. est. $50,000.

Tunnel and Approaches—Anderson, Ind.—County and Cleveland, Cincinnati, Chicago & St. Louis Ry., H. Baldwin, ch. engr., 230 East 9th St., Cincinnati, O., tunnel and approaches incl. 7,000 cu.yd. earth excav. to Herrick & Co., Cuyahoga Bldg., Cleveland, O. Approximately $87,000. Engrs. est. $90,000.

Grain Elevator—Omaha, Neb.—Missouri Pacific R.R. Co., E. A. Hadley, ch. engr., Ry. Exch. Bldg., St. Louis, Mo., constructing rein.-con. and steel addition to grain elevator, 15th and Anderson Sts., to E. Ahlskog Co., 6422 Kimlark St., Chicago, Ill. Nye & Jenk Grain Co., Grain Exch. Bldg., Omaha, Neb., lessee. Noted July 28.

Swimming Pool, Golf Course, etc.—Glendale (mail Kirkwood), **Mo.**—See "Buildings—Commercial."

Water Treating Plant—Hermann, Mo.—Missouri Pacific R.R. Co., Ry. Exch. Bldg., St. Louis, water treating plant incl. steel storage tank pump, etc., to Foundation Co. of Missouri, 1923 Main St., Kansas City.

Natural Gas System—Texas—Western Gas & Fuel Supply Co., Ranger, natural gas system in Ballinger, Winters, Miles, Rowena, Talpa, Valera, Silver City, also 76 mi. 8 in. gas main line from San Angelo to Silver City and other towns, to Atex Constr. Co., Eastland. Approximately $500,000 and $2,000,000 respectively.

Tank Farm—Del Rio, Tex.—Mid-Kansas Oil & Gas Co., c/o W. W. Fleming, Findlay, O., twenty-five 80,000 bbl. steel oil tanks, to Mount Cooper Boiler & Iron Wks., c/o owners, $750,000.

Lighting System — Huntington Park, Calif.—Ornamental lighting system on Pacific Blvd., to G. W. Kemper, 3701 South Overland Ave., Los Angeles, $75,935.

Lighting System—Los Angeles, Calif.—Ornamental lighting system on Cadillac Ave. between La Cienga and Robertson Blvds., to R. D. Caley, 4722-4th Ave., $76,165.

Lighting System—Los Angeles, Calif.—Ornamental lighting system on Pacific Ave. between 26th and Paseo Del Mar Sts., to A. C. Rice, 1957 Santee St., $34,821. Noted Apr. 7.

Lighting System—Los Angeles, Calif.—City, ornamental lighting system on 7th St., between Alvaredo St. and Garland Ave., to Los Angeles Electric Works, 1128 South Los Angeles St., $38,486.

Materials

Proposed Work

Cement—Merced, Calif.—P. J. Thornton, Co. Clk. and W. E. Bedesen, Shafer Bldg., Co. Surveyor, plans to purchase 6,500 bbls. portland cement.

Bids Desired

Guard Rail—Iowa—See "Streets and Roads."

Bridge Lumber—Maringo, Ia.—Aug. 19, at office Auditor Iowa Co., 5 cars 3 x 12 x 16 ft. and 1 car 3 x 12 x 20 ft. standard sawed rough fir lumber, and 1 car untreated cypress piling. W. W. Thorn, Marengo, co. engr.

Road Oil, etc.—Inglewood, Calif.—City, taking bids furnishing 2,700 bbl. road oil and 4,500 tons crushed rock.

Granite Blocks—Montreal, Que.—Aug. 15, by Chn. Executive Committee, City Hall, Montreal, Que., for 108,700 granite blocks.

Contracts Awarded

Culvert Pipe—Iowa—State Hy. Comn., Ames, 672 ft. 15 in. corrugated culvert pipe f.o.b. Moravia, Project P-496, Appanoose Co., and 796 ft. 15 and 36 in. f.o.b. Belmond, Project F-267, Wright Co., to Klauer Mfg. Co., Dubuque $591 and $591 respectively, 426 ft. 15 in. f.o.b. Hilton, Project F-482 Monroe Co. and 216 ft. 15- to 48- ft. f.o.b. Melrose, Project P-477, Monroe Co., to Central Culvert Co. Attumwa, $383 and $271 respectively. Grand total $1,838.

See proposal advertising on page 136

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UNIT PRICES

On actual contracts gathered by field corr espondents, also those sent in by readers

Bridge—Portland, Ore.

Bids were opened by Commissioners of Multnomah Co., for two concrete viaducts on Canyon Road, from (A) Lindstrom & Feigenson, Worcester Bldg., (awarded contract); (B) A. D. Kern, 290 East Salmon St.; (C) Taylor Bros., Builders Exchange. The unit bids are as follows:

	A	B	C
500 cu.yd. common excavation	$1.00	$0.75	$0.90
1,000 cu.yd. loose rock excavation	2.00	1.00	.90
500 cu.yd. solid rock excavation	3.50	3.25	2.50
1,790 cu.yd. Class A concrete, 1:2:4 mix	16.00	18.00	17.00
160 cu.yd. Class D concrete, 1:2:3 mix	20.00	18.00	25.00
250,000 lb. reinforcing steel in place	.0375	.035	.04
2,100 lb. guard angles in place	.15	.09	.20
100 lin.ft. 3-in. porous drain tile in place	.30	.09	.30
Totals	$45,810	$47,048	$47,480

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Bridge—Oakland, Calif.

Bids were opened by Commissioners of Alameda Co. (lowest three and highest) for constructing Mission Bridge over Calaveras River, from (A) Gutleben Bros., 614 Mills Bldg., San Francisco, (awarded contract); (B) C. B. Cowden; (C) W. M. Willett; (D) G. C. Vensano Co. The unit bids are as follows:

	A	B	C	D
3,200 yd. excav., below elev. 230	$5.25	$6.30	$5.00	$8.00
2,600 yd. excav., above elev. 230	2.45	.95	1.68	13.00
19,500 cu.yd. rdwy. excavation	.60	.63	.71	.70
34,000 sq.ft. 4 in. graveled rdwy.	.05	.05	.06	.04
3,100 cu.yd. concrete in bridge	19.60	22.00	21.30	25.00
516,000 lb. reinforcing steel	.05	.045	.055	.051
2,000 lin.ft. guard fence	1.10	1.10	1.10	1.00
100 ft. 12-in. corrugated pipe	2.00	1.75	1.80	3.00
Totals	$127,918	$134,870	$134,882	$186,276

Engineering News-Record, Issue of Aug. 11, 1927

Bridge—Chicago, Ill.

Bids were opened by Department of Public Works, May 26, for east substructure of double leaf trunnion bascule bridge over South Branch of Chicago River on Roosevelt Road, from (A) FitzSimons & Connell Dredge & Dock Co., 10 South La Salle St., (awarded contract); (B) Central Dredging Co., 307 North Michigan Ave.; (C) Great Lakes Dredge & Dock Co., 104 South Michigan Ave. The unit bids are as follows:

	A	B	C
Removing all obstructions (lump sum)	$27,500.00	$38,350.00	$35,000.00
Shed for storage of cement (lump sum)	3,000.00	3,025.00	3,500.00
Building cofferdams (lump sum)	100,000.00	85,380.00	125,000.00
100 cu.yd. general excavation	5.00	8.00	5.00
100 cu.ft. removal of boulders	1.50	6.00	1.00
430 cu.ft. removal of solid limestone	1.50	7.00	1.00
10 cu.yd. removal of solid stone	20.00	38.75	15.00
20,700 cu.ft. complete sub piers	2.00	2.10	2.50
2,000 cu.yd. filling within cofferdam	3.00	1.60	2.50
800 cu.yd. 1:6 portland cem. concrete	22.00	25.50	22.00
1,400 cu.yd. 1:7½ portland cem. concrete	18.00	20.00	20.00
120 cu.yd. portland cement mortar	25.00	45.50	30.00
320,000 lb. steel reinforcing material	.06	.075	.07
160,000 lb. permanent fixed steel	.10	.12	.12
84,000 lb. structural steel beams	.09	.10	.12
11,100 lb. steel castings	.15	.12	.15
200 lb. cast iron manhole covers	.20	.10	.10
2 brass bell traps	30.00	30.00	25.00
30 safety treads	4.00	4.00	3.00
4,000 lin.ft. Norway pine piles delivered	.45	.40	.40
4,000 lin.ft. driving sundry piles	1.00	.40	.60
5,000 ft. b. m. creosoted oak timber in place	250.00	300.00	250.00
40,000 ft. b. m. untreated yellow pine timber in place	250.00	200.00	150.00
50 lin.ft. vitrified clay sewer pipe	8.00	9.00	10.00
Concrete in sub piers—air pressure, per cu.ft.	15.00	15.00	1.00
Extra portland cement, per bag	1.00	1.00	.80
Totals	$287,290	$299,365	$335,885

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Bridge—Chicago, Ill.

Bids were opened by Department of Public Works, June 23, for superstructure of double leaf trunnion bascule bridge over South Branch of Chicago River on Roosevelt Road, from (A) Ketler-Elliott Co., 3121 South California Ave., (awarded contract); (B) Strobel Steel Construction Co., 53 West Jackson Blvd.; (C) Kelly-Atkinson Construction Co., 189 West Madison St. The unit bids are as follows:

	A	B	C
Superatructure, except sidewalks, operators' houses, enclosure walls, electrical equipment, plumbing and fixed part railings (lump sum)	$466,000.00	$477,580.00	$487,000.00
Horizontal truss and 2 inclined braces (lump sum	5,900.00	5,600.00	6,000.00
Material called for on drawing 10854 (lump sum	11,000.00	10,900.00	10,900.00
Additional carbon steel and rivets, per lb.	.12	.12	.10
Additional reinforcing metal, per lb.	.10	.15	.08
Additional forged or machinery steel, per lb	.30	.30	.25
Additional cast steel, per lb	.28	.30	.25
Additional machinery iron castings, per lb.	.28	.25	.25
Additional phosphor bronze and babbitt, per lb	1.50	1.00	1.25
Additional portland cement, per bag	1.00	1.00	1.00
Additional Atlas lumnite cement, per bag	3.50	3.25	3.00
Additional steel punchings, per lb	.02	.03	.02
Additional lead slag, coarse agg. No. 5, per cu.ft.	1.00	2.00	.25
Additional plain concrete with 1:3 mortar, per cu.ft.	1.00	1.50	.75
Additional composition concrete—1:2 mortar, per cu.ft.	3.00	2.00	2.50
Additional creosoted Y. P. or oak timber, per f.b.m.	150.00	140.00	150.00
Additional untreated fir, per f.b.m.	125.00	110.00	125.00
Additional concrete not used for cwt., per cu.yd.	35.00	30.00	25.00
Totals	$482,900	$494,080	$503,900

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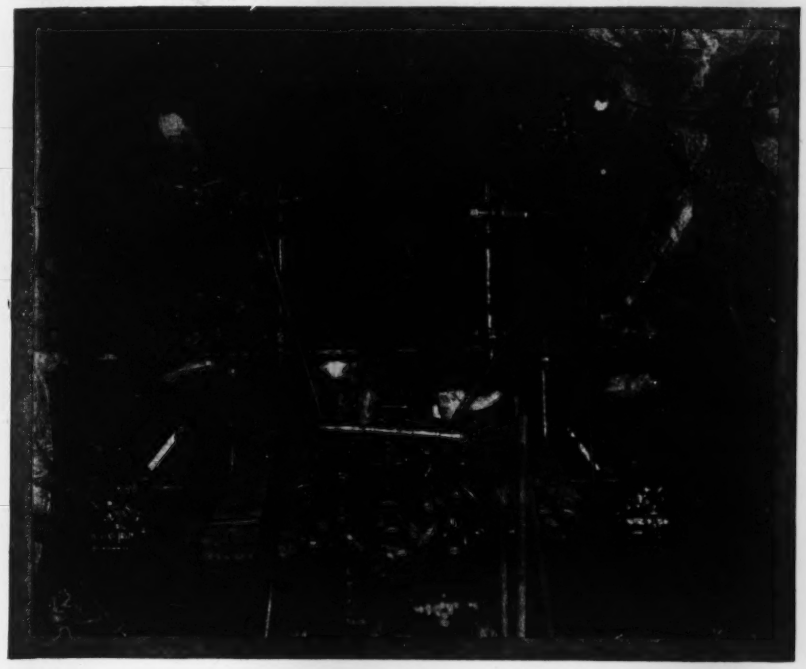
UNIT PRICES *Continued on page 81a*

WAUGHDRIFTER



Waugh Model 17 Tunneling Drills Mounted on Special Drill Carriage

Cascade Tunnel

The Leading Tunneling Drill

A Standing Record

In October, 1926, A. Guthrie and Company established a new world's record in tunnel driving on the Cascade Tunnel project, when they advanced an 8′ x 9′ tunnel heading 1157 feet, working from a single heading. Denver Model Seventeen drills, mounted as shown above, were used exclusively in establishing this record.

For all tunnel driving projects, and for all hard rock drilling in mining and quarrying operations, the Denver Model Seventeen is now recognized as the leading rock drill.

Because of its speed and power, and above all, because of its dependability, it has been selected on such notable projects as the Moffat, Chelan, Cascade, Hetch Hetchy, Milton Bowman, Conowingo, and many others.

It will pay you to investigate the performance of this fast dependable machine. Write for your copy of Bulletin No. 170.

ROCK WAUGH DRILLS

THE DENVER ROCK DRILL MANUFACTURING COMPANY

DENVER COLORADO

UNIT PRICES

On actual contracts gathered by field correspondents, also those sent in by readers

Bridge—Chicago, Ill.

Bids were opened by Department of Public Works, May 26, for west substructure of double leaf trunnion bascule bridge over South Branch of Chicago River on Roosevelt Road, from (A) M. E. White Co., 1735 Fullerton Ave.; (awarded contract); (B) Underground Construction Co., 135 North Wells St.; (C) Mid Continent Construction Co.; 6 North Michigan Ave.; (D) Fitz Simons & Connell Dredge & Dock Co., 10 South La Salle St.; (E) Chicago Foundation Co., 76 West Monroe St.; (F) Great Lakes Dredge & Dock Co., 104 South Michigan Ave. The unit bids are as follows:

	A	B	C	D	E	F
Removing all obstructions (lump sum)	$10,570.00	$14,000.00	$10,000.00	$16,850.00	$36,800.00	$15,168.00
Shed for storage of cement—telephone (lump sum)	565.00	900.00	1,500.00	1,300.00	2,700.00	4,935.00
Building and removing cofferdam (lump sum)	10,480.00	13,000.00	20,000.00	53,000.00	38,000.00	63,600.00
6,000 cu.yd. general excavation	3.98	4.00	4.50	4.75	3.50	3.00
100 cu.ft. removal of boulders	.75	2.50	2.00	1.00	1.60	.79
430 cu.ft. removal of solid limestone	1.00	2.00	2.00	1.00	3.20	1.16
280 cu.yd. removal of solid concrete	6.88	9.00	10.00	13.00	21.00	15.00
20,100 cu.ft. complete sub piers	1.37	1.15	1.50	1.95	2.00	2.18
800 cu.yd. 1:6 portland cement concrete	15.27	13.50	18.00	18.40	22.00	33.60
1,300 cu.yd. 1:7½ portland cement concrete	13.78	14.75	16.00	18.25	20.00	27.60
130 cu.yd. portland cement mortar	15.56	19.00	18.50	20.00	35.00	27.60
300,000 lb. steel reinforcing material	.05	.05	.05	.06	.07	.07
150,000 lb. permanent fixed steel	.081	.08	.07	.0975	.12	.098
73,000 lb. structural steel beams or girders	.033	.03	.0275	.10	.09	.034
11,100 lb. steel castings	.14	.15	.14	.15	.10	.30
200 lb. cast iron manhole covers	.125	.35	.15	.08	.10	.32
2 brass bell traps	15.00	30.00	12.50	13.00	27.00	23.50
30 safety treads	3.00	4.25	1.75	2.75	3.50	5.40
1,300 lin.ft. Norway pine or cypress piles—delivered	.30	.40	.35	.35	.35	.49
1,200 lin.ft. driving sundry piles	1.00	1.50	2.00	1.00	.75	.42
5,000 ft. b. m. creosoted oak timber—in place	250.00	225.00	250.00	250.00	280.00	305.00
16,000 ft. b. m. untreated yellow pine timber—in place	200.00	120.00	220.00	300.00	200.00	214.00
Concrete in sub-piers under air pressure, per cu.ft.	7.00	10.00	6.00	15.00	8.00	1.00
Extra portland cement, per bag	1.00	.70	.75	1.00	.75	.80
Totals	$144,914	$147,568	$166,909	$233,480	$247,080	$264,522

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Filtration Plant—Grand Haven, Mich.

Bids were opened by City Council, June 20, (lowest four and highest) for constructing 2,000,000-gal. filtration plant, including filters, storage basin, sedimentation basins, etc., Division A, filter plant from (A) G. E. Tillman, Centralia, Ill., (awarded contract); (B) Priester Construction Co., Davenport, Ia.; (C) Bierd, Lydon & Grandpre, Chicago; (D) A. Bentley & Sons, Toledo, O.; (E) Andrews Fay Construction Co., Miami, Fla.; Division B, filter equipment and piping, (A) Roberts Filter Mfg. Co., Darby, Pa., (awarded contract); (B) International Filter Co., Chicago; (C) A. Bentley & Sons; (D) E. W. Bacharach, Kansas City, Mo.; (E) Hay-Weaver Co., South Bend, Ind. The unit bids are as follows:

Division A	A	B	C	D	E
5,300 cu.yd. earth excavation	$1.50	$0.79	$0.95	$1.05	$1.45
5 cu.yd. rock excavation	5.00	5.00	5.00	5.00	5.00
150,000 lb. reinforcing steel	.055	.043	.045	.045	.051
270 cu.yd. concrete Class A floors and footings	14.00	13.90	14.00	12.00	13.17
800 cu.yd. concrete Class A, walls, beams, etc.	19.00	21.40	24.50	22.25	39.35
10 cu.yd. concrete, Class B	10.00	9.60	10.00	10.37	20.00
75,000 lb. structural steel and iron	.06	.054	.07	.056	.079
3,000 lb. miscellaneous iron castings	.13	.13	.14	.145	.147
800 sq.ft. subway grating	1.25	1.70	1.50	1.26	1.41
Filter plant superstructure (lump sum)	16,007.60	22,573.00	19,000.00	22,222.00	27,019.70
5 M. ft. b.m. sheeting left in place	50.00	50.00	50.00	40.00	98.00
5 M. ft. b.m. plank foundations	40.00	50.00	50.00	40.00	98.00
Totals	$57,652	$60,504	$61,660	$61,746	$86,404

Division B	A	B	C	D	E
Filter piping (lump sum)	$4,940.00	$5,980.00	$5,375.00	$5,675.00	$6,400.00
Head house piping (lump sum)	2,200.00	2,680.00	2,472.00	3,200.00	2,873.00
Aerator piping (lump sum)	1,200.00	1,750.00	1,140.00	1,550.00	1,285.00
Valves and sluice gates (lump sum)	6,000.00	5,700.00	7,050.00	6,161.00	6,250.00
Filter underdrains					
Alternate A— pipe system	3,300.00	2,540.00	2,671.00	3,180.00	4,100.00
Alternate B— bidders' system	3,100.00	2,540.00	2,400.00	1,708.00	.....
Filter sand and gravel (lump sum)	1,900.00	1,560.00	1,200.00	1,950.00	488.00
Rate controllers, gates, meters (lump sum)	3,200.00	2,720.00	3,772.00	3,120.00	3,715.00
Chemical equipment (lump sum)	2,200.00	2,070.00	2,394.00	2,180.00	3,468.00
Totals	$24,940	$25,000	$26,074	$27,016	$28,579

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57 cents per cu.ft. is the contract price of a terminal warehouse building for the Central Terminal & Cold Storage Co., of New York City, awarded to the Parklap Construction Co., New York City. The building will be 208x223 ft. by 132 ft. high; 46,384 sq.ft.; 1 story 20 ft., 10 story 13 ft., 9 stories 11 ft.; to cost $3,500,000. Concrete, with caisson foundation and reinforced-concrete floor. Moores & Dunford, 110 East 42d St., New York, engineers.

Grain elevator of 8 storage tanks, 96 ft. high, 25 ft. diameter, at Hutchinson, Kan., is estimated at $40,000.

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